

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

JANUARY 1, 1950

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Harley Deems

Jan. 15 to 19. ILLINOIS STATE NURSERYMEN'S ASSOCIATION

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George Welch Bert Lumry Elmer Scott
Don Moffet Bert Welch C. P. Van Tol

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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JANUARY 1, 1950

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Forms for the January 15 issue will close Monday, January 2.

Mail copy to arrive at Chicago by that date—no later!



Best wishes for a
happy and prosperous
1950 to all our friends.


We appreciate your
contribution to making
1949 a happy and
prosperous year for us.



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AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

Editorial

HAPPY NEW YEAR!

Leaving the influences of the war far behind, the past year showed evidence of return toward normal in the nursery industry—if there ever is a year in this business uninfluenced by the abnormal, be it weather or war, business conditions or politics. In 1949 there continued to be a backlog of buying and planting for residential grounds neglected in the war period, and there was further demand to provide some degree of plant adornment about the many thousands of new homes being built. Combined with the increased interest in home gardening that is the result of the wartime stimulus and the postwar week-end leisure, these factors created ample business for pretty nearly everyone in the nursery industry.

To the surprise of those who were apprehensive of overproduction, many items among flowering shrubs were on the short side. Smaller sizes of evergreens are gaining in numbers, but there still is a scarcity in the larger landscape sizes. Fruits generally did better than many had expected.

Hence, a good share of the firms in the field reported a larger volume of business, and the postwar newcomers to the industry fared well. Fewer of the latter have fallen by the wayside in this field than in most other lines of business. The gain in business volume was felt by virtually all branches of the business, although there were some adjustments due to changes in the buying habits of the public from the wartime period.

Autumn sales were gratifying in most sections, so that the year ended on an encouraging note. The optimism extends into the new year. Anticipating continued growth with that of the industry at large, and acknowledging the cooperation of its readers in the current advance and improvement, the staff of the American Nurseryman wishes you a Happy and Prosperous New Year!

SOCIAL SECURITY TAX UP.

Remember that the rate of withholding on the federal social security tax advances to one and one-half per cent as of January 1, 1950. This is the first increase from one per cent in

The Mirror of the Trade

the social security tax rate since the program began in 1937.

Announce the increase in rates to your employees and state that the law requires that you collect this larger amount.

The higher tax will be due on wages earned in 1949 if they are paid in 1950.

MOUNTING FREIGHT RATES.

Freight rates on nursery stock have doubled in the past year or two, and many fear that the last increase has not yet been put on the books. The American Association of Nurserymen has engaged counsel to place the matter before the Interstate Commerce Commission in the hope of obtaining relief.

Higher freight rates mean more than a higher cost of doing business or higher prices to customers. They are certain, in the long run, to have influence upon the methods of operation within the industry. As freight rates become higher, nationwide distribution from a few large manufacturing or growing areas are supplanted by state-wide or regional distribution from a larger number of smaller manufacturing centers. The process is taking place in many fields. Two close ones are the manufacture of clay pots and the production of finished flowering and foliage plants for florists.

In the nursery industry the time may come when national distributors will be only the propagators of lining-out stock and small sizes of plants. Purchasing from these propagators, wholesale nurseries will grow the stock to marketable sizes, especially landscape specimens. Less reliance will be placed upon commercial transportation, either railroad or truck, as is the case in some areas today where the nurseryman sends his truck a couple of hundred miles, or sometimes much farther, to pick up stock he has purchased.

Higher freight rates also may cause shifts in growing areas. Already extensive rose fields are producing plants on the east coast, to save shipping charges from points west of the Mississippi or beyond the Rocky mountains. As improved methods of handling soils are applied and portable irrigation comes into larger use and, consequently, fertilizer applications are extended, production areas may be brought closer to marketing areas. Large concentra-

tions of growers may be superseded by scattered growers closer to their individual markets.

THE ONE-HORSE OPERATOR.

Some suggestions how to plan during the winter for more effective spring business are contributed to this issue by an individual who describes himself as a one-horse nurseryman. As may be evident from the thoroughness and character of his planning, he is a one-horse nurseryman because he prefers the quiet life in conducting a restricted though up-to-date business in a small community. The reader who keeps up with all his suggestions will have no lack of things to do between now and spring.

One or two comments may be added, by way of extension. By searching for ideas or material for advertising, display and the like, one may perhaps condition oneself to recognizing them more quickly at any time of the year. A shrewd operator in this type of enterprise is often seen tearing a piece out of a newspaper or a page out of a magazine, to be inserted into his idea file. Then when he wants to make up an advertisement or circular on some seasonable subject, he can turn to a folder for suggestions and illustrations. Other folders have to do with nursery layout, ways to feature particular items, use of new materials, etc. When one once has the pattern, he almost accumulates such ideas, or fragments of ideas, automatically.

Another thought for the one-horse operator is that there is no reason why his nursery should not be as businesslike as a larger enterprise. He may not have a stenographer or office girl full-time the year around. But now that the wartime shortage of labor is past, and large numbers of married girls and women have returned to their homes from shops and offices, it is easily possible to get the part-time services of someone not requiring regular income, but glad to turn spare time into what the one-time farmer's wife had as chicken money. Actually such persons are easier to find and retain from year to year in a small town than in the city. We hazard a guess that the small operator would soon see the return, in one form or another, of the money invested in office help, part-time in the quiet season and full-time, during the rush.

Instructive Talks at Milwaukee

Though icy roads kept the attendance from equaling last year's record, the program of the thirty-third annual meeting of the Wisconsin Nurserymen's Association, at Milwaukee December 7 and 8, was of such caliber as to sustain interest through two full days. In fact, a third day of information was added for those who cared to remain, as the second annual landscape gardeners' conference was held at the Hotel Schroeder, December 9, under the sponsorship of the Milwaukee Master Gardeners' Association.

Members' desire for information was led by concentration on related subjects at the three sessions which followed the short business meeting on the morning of December 5. In a short opening talk, President R. C. Pippert expressed pleasure that the members of the association had overwhelmingly voted to increase the dues to \$10 per year, providing funds which will enable the association to give more service to the membership. Secretary-treasurer Thomas Pinney reported income of \$1,394 last year from convention registration, exhibits, program advertising and dues so that the net worth of the organization was increased to \$1,449.35.

Projects and Election.

When Kenneth Greaves, who was to be chairman of the landscape gardeners' conference December 9, expressed a desire that the landscape group and the Wisconsin Nurserymen's Association might find feasible some sort of merger, discussion revealed that the proposals were so vague that the subject should be studied by a committee of three, consisting of L. L. Kumlien, J. P. Foster and T. S. Pinney. Again the subject of a short course for nurserymen at the state university was raised, and J. P. Foster was appointed to take up the matter as he had a couple of years before. Vote was taken to have an exhibit at the state fair and plan an appropriate meeting for summer. The committee on state fair exhibits is to consist of Kenneth Greaves, Walter Remond and Joe Moeller.

The report of the nominating committee, which this year consisted of the board of directors, was not presented until the close of the final session, when it was accepted in full. Officers elected are president, L. L. Kumlien, Kumlien Nursery, Janesville; vice-president, Howard Anderson, Nepco Lake Nursery, Port

Edwards, and secretary-treasurer, Thomas S. Pinney, Evergreen Nursery Co., Sturgeon Bay. Directors elected are C. L. Wachtel, Wauwatosa, and Robert A. Gieringer, Milwaukee.



WISCONSIN PRESIDENT.

In response to repeated requests for his portrait in the year since he was elected vice-president of the Wisconsin Nurserymen's Association and to personal pleas upon his election as president, L. L. Kumlien mailed the editor, after he returned home, the letter below:

Dec. 9, 1949

Dear Mr. Editor:

"As promised you in Milwaukee, I am enclosing my photo. I was thinking of having a new one taken, but I find the prices have gone up to 75c. The way things are at present, you can take this one or lump it. I recall at the time this was taken I thought I was on my way to a career in baseball. Instead I now end up as pres. of the convention in Wisconsin. In case you are interested in a fulltime outline of my career up to date, I can say I dropped out of school in the 5th grade when I got too big for the seats. I was called back three years in the fifth grade for a repeat performance, until I started making passes at the teacher, when I was kicked out. After that I went in the navy. I am the only one in War I that came out lower than I went in. I went in a seaman first class and came out seaman apprentice. This was on account of failing to report a submarine off the port bow. After that I was taken in by Art Hill at Dundee, Ill. Art fed me for 30 years. It took me that long to get the hang of the nursery business. Then I moved to Janesville thinking I could make a living on my own. Time will tell. Anyway, when I was out of the room on an urgent personal matter the members elected me pres. of the convention in Wisconsin.

"Now, Fred, remember you asked for some 'biographical notes on my personal history and trade career.' If you want to clutter up your paper, go ahead and print this. Me and the members in Wisconsin expect to make you sit up and take notice during the coming year."

Yours truly,
Pres. of the Convention in Wis.

waukee. Holdover directors are Max Singer, Milwaukee; William Dust-rude, Hartland; Ed Eschrich, Milwaukee, and J. P. Foster, Milwaukee.

A. A. N. Affairs.

At a meeting of the Wisconsin A. A. N. chapter, immediately following the morning session, Ed Eschrich was elected president; Howard Anderson, vice-president, and T. S. Pinney, secretary-treasurer. Since members of the Wisconsin chapter pay close to \$1,200 in total dues to the national association at present, it was thought the chapter might qualify for two delegates at the next national convention. So Ed Eschrich and Robert Gieringer were elected delegates and Laurence C. Holmes and Howard Anderson alternates.

James Ilgenfritz, A. A. N. president, gave a short talk and commended the growth of the Wisconsin chapter and welcomed the increase in membership.

Following an excellent luncheon and interesting colored slides of Sun Valley shown by Col. H. C. Anderson, public relations representative of the Union Pacific railroad, the activities of the American Association of Nurserymen were discussed in some detail by Executive Secretary Richard P. White, following the outline of his talk at the Minnesota state meeting reported in the preceding issue. Mr. Ilgenfritz spoke briefly on the increased service of the national organization and bespoke attendance at the seventy-fifth anniversary of the organization to be celebrated at the convention at Washington, D. C., next July.

Insects and Diseases.

In the absence of E. L. Chambers, state entomologist, members of his staff presented an enlightening program in the remainder of the afternoon.

H. E. Halliday remarked that, with the increase in the production of yews, the leucanium scale might be expected to be a pest of particular importance. It is controlled by Parathion, Loro, Vaportone, Dowspray 17 or Black Leaf 40. These insecticides are particularly effective on the crawlers, which appear to be lemon-yellow specks moving out from beneath old scales about July 10 to 20 in Wisconsin. Adults and eggs are more difficult to kill.

Mealy bugs on taxus are likely to be another problem. This pest is con-

trolled by Loro and Parathion, although Mr. Halliday hesitated to recommend the latter unless one would take adequate care in spraying or dusting. Gas masks should be used in any kind of application. Liquid should not be permitted to get on the face or hands, and dusting should be done so that the chemical would not blow back upon the operator. After using such a poisonous chemical, operators are advised to change clothes and take a bath. Two applications should be made—one near the end of May and one about June 10, as at that time the young mealy bugs are not so protected by the cottony mass.

Mr. Halliday made other recommendations on insect controls and presented members with a mimeographed copy of control recommendations on the more common insects and diseases of trees and shrubs in Wisconsin, copies of which may be secured from the state entomologist's office, State Capitol, Madison 2, Wis.

Phil Smith spoke briefly on the present status of the European corn borer, stating that this pest caused the loss of twelve and one-half per cent of the corn crop in Minnesota and Illinois; hence, study of control measures were well worth the expense involved. Heavy infestation of grasshoppers had caused 906 tons of bait to be set out the past year.

The latest in barberry shipping regulations were presented by Gus Blomgren and the shipping requirements on white pines and ribes, by Theodore Kuba. He commented that there was need for more and better spray equipment in nurseries and that weed control should be considered of more importance.

Banquet.

At the banquet in the evening, visitors not only enjoyed an excellent meal, but were diverted by several entertaining acts, as well as a few jokes from the toastmaster, L. L. Kumlien, and other persons. The speaker of the evening, Michael Klein, started out in what seemed a diverting manner also, but wound up a dramatic address for better education, tolerance of others' religions and ideas and less attention to those things that caused wartime hysteria.

Fertilizers.

The discussion of fertilizers which opened the morning session December 8, by Stanley Foll, of the Brown Deer Nurseries, Milwaukee, was largely concerned with the fertilizer elements and their availability to plants because of the acidity of the soil. Using a large chart for illustra-

tion, Mr. Foll pointed out the close relationship between soil acidity and availability to plants of nitrogen, phosphorus, potassium and other necessary elements contained in the soil. Most trees grow best in soil having a reaction between pH 5.5 and 7.0. An undue increase of either acidity or alkalinity may cause retarded growth of trees and shrubs, or even positive injury or death may result. Inasmuch as the introduction of fertilizer into the soil may cause radical changes in its pH value, Mr. Foll emphasized the desirability of obtaining careful soil analysis before applying fertilizer. Considerable discussion ensued as to the most useful types of soil analysis and instruments for that purpose.

To illustrate the care needed in the application of fertilizers, Mr. Foll said that, inasmuch as nitrogen, potassium and phosphorus took different periods of time to reach the points of best availability in solution, it was wise to wait half an hour or so before applying the liquid after the ingredients had been put into solution. Otherwise, the result of the application might be considerably different than the operator intended.

Chemical Aids.

In a discussion on the application of Dowax, Al Wetli, of Green Bay, said that he had made effective use of this material on burlapped shrubs, shade trees and some evergreens moved in the hot summer months. Pines did well, but arborvitae less satisfactorily. His method was to give two coats of Dowax one-half hour apart before digging and a third when the replanting has been completed. He advised watering thoroughly before moving the trees or shrubs.

Herbert Trautman, of Franksville, said that fall-planted fruit trees on which Dowax had been applied put forth extra growth the following season. The application of Dowax made other evergreens brighter in color, but the coating made the color of blue spruces appear green until the coating wore off. Junipers did not take the material well in mid-summer. Wild crabs and hawthorns in full leaf had been moved successfully by this method. A self-cleaning nozzle is important, so that applications will not be delayed by clogging.

James Ilgenfritz said that his firm, at Monroe, Mich., was using a rubber latex product of the Goodrich Rubber Co., called Geon, or Goodrite GL 600. By dipping potted evergreens before planting in the field, losses were reduced to insignificance.

The same material has been used on roses in recent years. It must be applied in a temperature of over 70 degrees. He had noted no difference in results between spraying and dipping. The material disintegrates more rapidly in sunlight.

Chemical Weed Control.

William Brenner, superintendent of the Griffiths state nursery, reported on the use of mineral spirits to control weeds. This has been the subject of several recent articles in the American Nurseryman, reporting on the various products tried in northern and southern areas. In the Wisconsin nursery Stanisol is used at a rate of fifty to seventy-five gallons to the acre, although forty gallons are reported effective in Indiana and fifteen to twenty in the south. This product can be used only on beds of evergreen seedlings, not hardwoods. An application should not be put on too soon when seeds are sown in the spring. Seedlings from fall sowing are large enough to stand the applications in spring. A knapsack sprayer was originally used, though now a power sprayer is being employed at fifty pounds' pressure.

Shade Trees Diseases.

Slides on shade trees shown by C. L. Wachtel were largely confined to showing the devastation caused by the phloem necrosis and Dutch elm diseases and the oak wilt recently reported on in detail in these columns.

At the conclusion of his talk, the association passed a resolution directed to the United States Department of Agriculture and other federal authorities, urging appropriation of federal funds for research on the oak wilt.

Irrigation.

Most of the afternoon session was devoted to the subject of irrigation. Prof. H. D. Bruhn, of the department of agricultural engineering, University of Wisconsin, discussed the various forms of sprinkling equipment. In the past the oscillating type of sprinkler system, which is permanent in location, was generally limited to use in nurseries and truck gardens. This form provides some frost control and humidity, which are not supplied by portable systems.

The portable systems with rotary sprinklers have come into wide use by vegetable growers and, more recently, by nurserymen. The lower cost, from \$60 to \$100 per acre, compared to \$200 to \$300 for oscillating

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Large Turnout for Nebraska Meeting

By Charles W. Andrews, Secretary

The annual meeting of the Nebraska Association of Nurserymen, held December 12 and 13 at the Fontenelle hotel, Omaha, drew a larger attendance of members and guests than for several years. Reports of an approaching storm may have prevented some from attending, but the weather proved fair, especially for the time of year, as the storm skirted the Omaha area. The cool weather was particularly noticeable because the unusually fine fall weather had continued into early December.

John Baumann, Baumann's, Beatrice, was elected president of the association for 1950, and Charles Hurlburt, Fairbury Nurseries, Fairbury, vice-president. Charles W. Andrews, Marshall Nurseries, Omaha, was reelected secretary-treasurer.

President Robert E. Campbell, Campbell's Nurseries, Lincoln, presided at the meeting and also led a round-table discussion of personnel problems. At the business meeting which preceded the program, the association voted to change its fiscal year to begin February 1 of each year, instead of ending at the annual meeting.

Vernon Marshall, Marshall Nurseries, Arlington, reported for the research committee, and the members were asked to cooperate with the North Platte and Cheyenne experiment stations concerning new varieties of plants.

Gus Gritzmacher, Plumfield Nurseries, Inc., Fremont, chairman, reported for the public relations committee, and the association decided that the committee should continue its work along the same lines to promote better planting plans and better methods of plant care and tree pruning for public properties in the state.

After Harvey Williams, Williams Nurseries, Lincoln, had reported for the uniform spray and dust committee, it was agreed that the formula for the uniform spray and dust be changed. The material is packaged under a label for members' use only and is called NAN.

The highlight of the banquet the evening of December 12 was an address by C. N. Wright, public relations man for the Union Stock Yards, Omaha. He kept his audience laughing, but interspersed and ended his talk with bits of philosophy which proved his reputation as "the Will

Rogers of Nebraska." During the meal an accordionist played, and immediately afterward a quartet from Council Bluffs sang popular tunes and the audience joined in on some. Al Nielson, a member of the association, was a member of the quartet. Guy Brown was toastmaster and led a round-the-table introduction of all present.

Cigars were placed at every plate by O. L. ("Doc") Erickson, Kearney Nursery & Floral, Kearney, because he was again a grandfather. After Mr. Wright's address colored slides on arborists' work, specimen trees and plantings were shown by William Erdman, Omaha, for those who chose to remain.

The headline speaker at the convention was Dr. L. C. Chadwick, professor of horticulture, Ohio State

University, Columbus. His talk on "Nurserymen's Problems" concerned propagation and soil management, and he stressed the latter topic. After his talk he answered the many questions asked of him. And as the meeting ended ahead of schedule, Dr. Chadwick was called back to answer more questions.

In the question-and-answer period, roses and evergreens came up for discussion. Dr. Chadwick said that considerable winter loss in roses is because the plants were not in good condition when winter came. He does not believe in cutting back rose canes in fall. He prefers a summer mulch to cultivating rose beds and as a mulch likes corncocks or peat moss, preferably corncocks, not ground fine, but in 1 1/2-inch pieces. Dr. Chadwick humorously remarked that he was often called "the corn-cob king" in Ohio. He said that mulched roses require more fertilization. The mulch should be applied on rose beds in early summer rather than in spring, and the mulch should be stirred up occasionally.

Dr. Chadwick stated that some nurserymen are shipping evergreens bare root. They apply Dowax to the tops and roots. He advised fall mulching for evergreens or, better still, mulching in early winter.

The next speaker was Dr. Jess E. Livingstone, plant pathologist, University of Nebraska, Lincoln, who discussed "Fungus Problems." He reported his knowledge of phloem necrosis and oak wilt and advised the nurserymen as to what they should know about these diseases. While little of either disease is now present in Nebraska, the members were in accord that Nebraska nurserymen should keep informed about them.

The afternoon session started with a talk "Collaboration, One Key to Landscape Success," by Francis A. Robinson, landscape architect with Robinson & Parnham, Des Moines, Ia. He stressed the importance of landscape men making every attempt to cooperate with building architects, rather than waiting for the first step in cooperation from them. Mr. Robinson said that he was receiving excellent cooperation from architects. He also said that landscape nurserymen should make every attempt "to be on the ground floor, with our clients," in order better to formulate

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JOHN BAUMANN.

John Baumann, the new president of the Nebraska Association of Nurserymen, has spent most of his forty years in the nursery business. His father, E. E. Baumann, was born in Switzerland and learned the trade there and in Germany before coming to the United States. And Mr. Baumann learned the business under the tutelage of his father, whom he considers the best landscape architect and teacher whom he has known.

Now in partnership with his father as Baumann's, at Beatrice, Neb., John Baumann has worked with his father most of his life, but occasionally has worked with other firms for short periods in an endeavor to acquaint himself better with methods of propagation, landscaping and tree surgery.

Baumann's main business is propagating perennials, both for retail and wholesale trade, and landscaping. In spring the firm plans to expand into a general line of nursery stock.

Mr. Baumann and his wife have four sons.

Western Pennsylvania Annual Meeting

By Louis E. Wissenbach, Secretary

The board of directors of the Western Pennsylvania Nurserymen's Association met December 12, 1949, and elected the following officers for 1950: President, Andrew R. Palombo, South Hills Nurseries; vice-president, Stanley W. Leonard, Leonard & Leonard; secretary, Louis E. Wissenbach, Squirrel Hill Nursery, and treasurer, Roy Breidenbach, Pittsburgh Landscape Design & Service. All are located at Pittsburgh.

The association's meeting schedule for 1950 was decided and is as follows: Spring meeting, March 8; summer outing, July 12; fall meeting, September 13, and the annual meeting, December 6.

The annual meeting of the Western Pennsylvania Nurserymen's Association, held December 7, at the Webster Hall hotel, Pittsburgh, was most successful and drew a total attendance of ninety-five members and guests. The program consisted of a business meeting, three feature speakers, an excellent dinner and entertainment.

The program was run smoothly under the guidance of Vice-president Andrew Palombo and Program Chairman Frank Curto. The condition of the association was reported by the treasurer, secretary and chairmen of the various committees. The reports showed a healthy condition, with interest increasing in the association. Total membership reported at the meeting was eighty-three. Although a net loss of six members for the year was reported, from resignations or being dropped for failure to pay dues, there were five new applications for membership received at the meeting.

Election of directors was held, and the following were elected for the ensuing year: Andrew R. Palombo, South Hills Nurseries, Pittsburgh; Stanley W. Leonard, Leonard & Leonard, Pittsburgh; Roy Breidenbach, Pittsburgh Landscape Design & Service, Pittsburgh; John M. Eisler, John M. Eisler's Nurseries, Butler; Walter P. Morrow, Morrow's Tree Co., Sewickley; Frank H. Brushmiller, Pittsburgh, and Louis E. Wissenbach, Squirrel Hill Nursery, Pittsburgh.

The first speaker, Paul R. Bosley, Bosley's Nurseries, Mentor, O., spoke on "The Best Hollies," particularly the American holly, which, according to Mr. Bosley, is the best known

plant next to roses and violets. American holly has been a front-page plant since the landing of the Pilgrims, he said. Holly will adapt itself to almost any condition, sun or shade, dry or wet. But he advised planting named varieties and planting them correctly. Do not use seedling plants, Mr. Bosley cautioned.

Mr. Bosley has spent many years searching for the best holly varieties. He has tested 125 types and will finally have not over fifteen or twenty varieties that will be worthy of propagation. Some of the best varieties so far are Old Heavy Berry, Merry Christmas, Arden and Hedge holly. Mr. Bosley's yardstick for grading a holly is seventy-five per cent for foliage, fifteen per cent for bearing habit and ten per cent for the remainder of its habits. Average growth of a holly is about eighteen inches, but may be limited to a few inches, as it stands heavy shearing. Use liberal quantities of peat moss, decayed stumps or humus with good topsoil when planting, he advised. A slight acid condition is desirable. Spring is the best planting time. Nursery-grown trees do not have to have the leaves stripped off when transplanting. He cautioned against planting in a wind-swept spot, as the leaves will winter burn.

Mr. Bosley's advice on how to beat the next depression, if there is to be one, was to plant young plants of named varieties of hollies now, and then you will have plants that you will not have to sell short. Bosley's Nurseries have geared their propagation to 10,000 plants per year, and Mr. Bosley said that they have no secrets and a hearty invitation to visit the nursery is extended to all.

Dr. L. C. Chadwick, professor of horticulture, Ohio State University, Columbus, was the second speaker and discussed "Ground Covers and Plants for Difficult Situations." Dr. Chadwick distributed a prepared list of about 100 plants for different situations. He invited discussions on the plants as he went over the list, for, as he said, the plants listed were not all the best varieties, but that they would be a good basis on which to start the discussion. This developed many an argument and brought out the good and bad points of a plant. Dr. Chadwick likes an argument when it is about plant material, and certainly there is no one better qualified to discuss the merits of a plant.

Dr. Chadwick was kept so busy with questions that an hour and a half passed and probably another hour or two would have been consumed had not the program chairman interrupted to announce that dinner would be served in a half hour.

Some of the plants discussed were *Cotoneaster dammeri*; *Euonymus fortunei* and *E. f. coloratus*; *Hedera helix* *Baltic*, *Emerald Gem* and *Sylvania Beauty*; *Hypericum calycinum*; *Pachysandra terminalis*; *Vinca minor*; *Acanthopanax sieboldianus*; *Lonicera japonica halliana*; *Myrica carolinensis*; *Rhamnus davurica*; *Ribes alpinum*; *viburnum*, nearly all varieties; *Ligustrum obtusifolium regelianum*; *Cornus alba sibirica*, and *Magnolia virginiana*.

The speaker after dinner was Albert E. Cooper, extension specialist in agronomy, Pennsylvania State College, who discussed "Turf Problems." Mr. Cooper discussed chiefly renovation of turf in relation to athletic fields. Along with his talk he showed moving pictures of actual work being done on a golf course. The picture displayed all the latest equipment and methods. Mr. Cooper stressed that one of the prime failures of a lawn is caused by compaction of the soil. In renovation this must be corrected first. Using an Aerofier or any other implement that will lift out the plug is recommended. One should not use a spiker, as it only compresses the soil harder. Mr. Cooper advocated an organic nitrogen and a 0-20-20 fertilizer mixture for best results. One should check for acidity and, if lime is needed, apply the necessary quantity. The mixture of seeds recommended was fifty per cent *Alta fescue* or Kentucky 31, twenty-five per cent Kentucky bluegrass and twenty-five per cent *Chewings fescue*. About 150 pounds of this mixture is needed for the playing area of a football field. The area should be dragged with a mat to break up the plugs of soil and the holes filled.

Mr. Cooper recommended that this renovation be done immediately after the playing season and followed up by sowing about one-third as much seed in early spring on frozen ground. He cautioned not to fertilize before May 1, as it has been found that early fertilization promotes many of the diseases affecting lawns. The grass should be cut regularly, but

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Long Island Election Meeting

By David R. Bulk, Secretary

At the annual meeting of the Long Island Nurserymen's Association held the evening of December 8 at Leo Gerard's restaurant, Huntington, N. Y., all executives were reelected to serve during 1950. Allan F. Dalsimer, Dalsimer, Inc., Cedarhurst, continues as president; Hewlett W. Lewis, Lewis & Valentine, Inc., Roslyn, as vice-president; David R. Bulk, Bulk's Nurseries, Babylon, as secretary, and William O. F. Bensch, Huntington, as treasurer. Frank Williams and Charles Mouquin have one year and two years, respectively, remaining of their terms on the executive committee, and Walton Scherer was reelected for another 3-year term.

Selected as directors to the New York State Nurserymen's Association were Lloyd Weaver and Jac Bulk. Alternates are G. Clifton Sammis and William O. F. Bensch.

Chosen delegates to the board of governors of the American Associa-



Allan F. Dalsimer.

tion of Nurserymen were Walton Scherer and Leslie S. MacRobbie, and their alternates are Allan F. Dalsimer and David R. Bulk.

Following the reports of committees, a discussion was led by President Dalsimer on plans for the association's annual spring garden show. Lectures and discussions are planned to help educate the public, and various nurseries set up exhibits of all types. As the show has proved invaluable in past years in creating good will between nurserymen and their customers, it is planned to make several improvements over last spring's show. A committee was appointed to handle details.

The next matter to be discussed was the annual winter nursery school at the Long Island Agricultural and Technical Institute, Farmingdale. Suggestions were asked to aid in planning this year's program. It was the consensus that greater stress be placed upon salesmanship training for nursery employees.

Jac Bulk, president of the New York State Nurserymen's Association, reported on plans for the eastern nurserymen's convention, being held January 4 to 6 at the Hotel Statler, New York, and urged that Long Island nurserymen be well represented at the meeting of the New York State Nurserymen's Association, which will be held during that convention.

TO MEET increasing demands, the National Sawdust Co., 73 North Sixth street, Brooklyn, N. Y., doubled its floor space recently.

NOW representing Plant Products Corp., Blue Point, N. Y., in New Jersey, Connecticut, Westchester, N. Y., and on Long Island is Paul Burgevin. Al Saffer is no longer authorized to handle the firm's products.

THE well known sports promoter, Michael S. Jacobs, has sold a tract of about forty-one acres on Rumson road and Bingham avenue, Rumson, N. J., to Lovett's Nursery, Little Silver, N. J. President Lester C. Lovett said that the land will be planted in flowering shrubs.

AFTER operating the property for seventeen years as a nursery farm, Charles Momm & Sons, Union, N. J., have sold a 5½-acre tract on Springfield road to Garo Transportation Co. The transaction involved the sale of several thousand nursery plants, which were plowed under before construction began.



DAVID R. BULK.

One of the youngest officers of a nurserymen's association is 25-year-old David R. Bulk, Bulk's Nurseries, Babylon, N. Y., who is serving his second term as secretary of the Long Island Nurserymen's Association.

Born in 1924 at Brightwaters, N. Y., Mr. Bulk graduated from the Peddie School, Hightstown, N. J., and attended Cornell University, Ithaca, N. Y., for two years prior to enlisting in the United States Marine Corps. He spent two and a half years in service, one and a half of which he saw duty in the south and central Pacific war theaters.

Upon being discharged from the marines, Mr. Bulk joined his father, Jac Bulk, in Bulk's Nurseries, Inc., where he is now corporation secretary and general nursery manager. Mr. Bulk is married and has a son, Jac D., 2½ years old.



HEWLETT W. LEWIS.

Reelected last month to the vice-presidency of the Long Island Nurserymen's Association, Hewlett W. Lewis, of Lewis & Valentine Nurseries, Inc., Roslyn, N. Y., served the association as secretary in 1948.

About the time Mr. Lewis was born, December 11, 1914, his father entered the nursery business at Roslyn, N. Y. After graduating from Friend's Academy and the University of Pennsylvania, Mr. Lewis joined the firm in 1935. From 1943 to 1946 he served with the army engineers. While overseas he visited in occupied France near Paris, and an account of his observations appeared in the American Nurseryman for November 1, 1944. After being discharged from the army, Mr. Lewis rejoined Lewis & Valentine, Inc., and has since devoted his time to the landscape and nursery business.

Mr. Lewis and his wife, Patricia, and their three children live in a home on the nursery grounds.

AMERICAN ASSOCIATION OF NURSERYMEN

RICHARD P. WHITE.
EXECUTIVE SECRETARY



636 SOUTHERN BLDG.,
WASHINGTON 5, D. C.

A. A. N. STATISTICS SURVEY.

Through a statistics survey made by interested members, the American Association of Nurserymen expects to obtain year-to-year comparisons of quantities of young nursery stock planted and stock available for sale.

Under this plan the interested members of the association subscribe to the program for five years. Reports on the individual firm's stock are submitted by subscribers direct to Ernst & Ernst, nationally known public accountants, Chicago, Ill. The individual reports will be kept completely confidential by the accounting firm and will at no time become available to anyone else. The subsequent report of totals and ratios for all subscribers will be sent to each individual member at a cost of \$20 per year.

Questionnaires are supplied subscribers so that they can fill out the amount of stock being lined out under a variety of headings and also the quantities of salable nursery stock under a larger number of headings. When these are tabulated, it will be possible to present a comparison of currently salable stock in comparison with that of the preceding season, as well as a comparison of young stock planted the past year to planting planned for the ensuing year.

The totals are returned to the individual subscribers with percentages completed. The value of these reports will increase greatly when enough years of data can be accumulated to tie the planting phase with the stock available and sale phase. Comparison of the individual member's data sheet with the total report sheet will give him invaluable information which could not be obtained in any other way.

Through the operation of this statistics program, it is hoped that brush piles and losses may be avoided in future years.

The A. A. N. industry statistics committee is composed of George L. Welch, chairman, Shenandoah, Ia.; Richard L. Homes, Newark, N. Y.; Charles S. Burr, Manchester, Conn.; Keith Monahan, Hemet, Calif.; Glen Harris, Mobile, Ala., and Robert Baker, Fort Worth, Tex.

President James I.E. Ilgenfritz says: "This program is the first effort that

has been made to compare production and sales of nursery stock and, if it can be pursued for a few years, would no doubt greatly improve the situation as regards overproduction and shortages. We are probably one of the few national industries that does not make some effort of this kind. I believe a better adjustment of our production to sales will result in stabilization and an increase of profit to the nurserymen as a whole."

COVER ILLUSTRATION.

Caragana Arborescens.

Because of its hardiness and its tolerance of soil conditions, *Caragana arborescens* came into prominence with the advocacy of shelterbelt planting in the northern plains states. But its upright growth lends it other uses. For a tall hedge or screen it is excellent, and it may be used as a specimen if given rather severe pruning to develop new growth well covered with foliage. The pealike foliage and flowers, together with the greenish twigs, commend it for use as an accent plant.

This pea shrub or pea tree is a native of Siberia. It grows to an ultimate height of fifteen to twenty feet, with a spread somewhat less. Occasionally it forms a low tree.

The pinnately compound leaves contain from eight to twelve leaflets, obovate or oblong, slightly pubescent beneath. The foliage is a light, bright green.

Yellow pea-shaped flowers appear in April or early May, followed by brown pods about two inches long.

The flowers and pods, usually several together, are somewhat concealed by the young leaves.

While the pea shrub grows best in full sunshine, it will stand partial shade. It is quite tolerant as to soils, doing well in sand. The fibrous roots do not exhaust the soil. Growth is fairly rapid. The plant stands pruning well and is quite free of insects and diseases.

Propagation is from seeds, which should be gathered in autumn as soon as ripe. If stored over winter in a dry place, the seeds should be soaked in warm water for two or three hours before being sown.

A dwarf form, *C. arborescens pygmaea*, is spiny to the touch and grows about two feet high.

NEW TEXAS SALESYARD.

So that customers need not travel over four miles of unpaved roads to reach its main nursery, Stuart Nursery, Desdemona, Tex., has opened a new salesyard on the Stephenville highway. It was formally opened November 20, attracting several hundred visitors, and a gratifying opening day's business was handled, according to Bob Womack, manager. Three prizes, consisting of landscape material, were given as souvenirs of the opening.

The green-roofed office building, shown in the accompanying illustration, is of tile, painted white. The 60x60-foot lath house, where stock is on display, is behind the wall which bears the name of the nursery and large-size seals of the American Association of Nurserymen, in which Stuart Nursery holds membership.

Although the new salesyard is devoted primarily to retail trade, the company also handles wholesale trade there.

HAVING purchased seven acres of land at Big Beaver, Mich., Earl J. Bushhousen, 2906 Harding, Detroit, is starting a wholesale nursery.



New Salesyard Opened by Nursery at Desdemona, Tex.

Planning Better Shrub Borders

By Clarence E. Lewis

There are many things to think about when planning an effective shrub border. Many of these points we either fail to consider seriously or are not aware of them.

The three reasons for planning a border are: (1) To screen an adjoining property so that you have provided privacy for outdoor living; (2) to develop a planting that gives a sequence of interest, whether it be flowers, foliage, fruit or fall color; (3) to formulate a good garden or landscape plan.

If the purpose is to screen, then the selection of shrubs is important. Many plants are without the density that provides seclusion, or, in other words, they become thin and leggy. Such plants as *Aronia arbutifolia*, *Azalea* (*Rhododendron*) *mucronulata*, *Viburnum acerifolium*, *V. fragrans*, *V. setigerum* and *Ilex verticillata* are of this nature. If plants that have this growth tendency are to be used, they should be employed in groups of three or more, not used as single specimens, to insure better density in the border. Plants that have density of growth are *Viburnum tomentosum*, *V. dilatatum*, *Chaenomeles lagenaria* (*Cydonia japonica*), *Forsythia intermedia spectabilis* and *Lonicera fragrantissima*. They, of course, provide seclusion as individual plants in a border.

The selection of plants according to their time of flowering is often a matter of personal preference, but we can choose those that hold their flowers for longer periods. An individual plant of flowering quince may hold its flowers for as long as three weeks, while *Kolkwitzia amabilis* displays a good show of pink flowers for about a month (on Long Island from approximately May 15 to June 15). *Abelia grandiflora* begins its flower pageant in early July and is still doing a good job in October. The most difficult time to obtain shrub or tree flowering interest is after June 15. The hydrangeas are available but difficult to combine with other plants because of their coarse leaves and flowers. The buddleias and *Vitex agnus-castus* display showy flowers and can be employed if they are not used as background shrubs and are treated in northern regions as herbaceous perennials.

Clethra alnifolia is a welcome addition, with its white flowers in mid-July, and the variety *rosea* can also be enjoyed. The witch hazels should be included because of their odd time of flowering, beginning with *Hamamelis virginiana* in October and November and continuing with *H. vernalis* in January and February and *H. japonica* and *H. mollis* in February and March. The *Hibiscus syriacus* varieties start their flowers in July and, of course, continue for a good period of time.

For the front part of borders where low-growing plants are necessary, *Hypericum moserianum*, *H. patulum henryi* and *H. kalmianum* display an attractive show of yellow flowers from July to the first frost. The hypericums are particularly effective when planted in front of *Abelia grandiflora*.

In planning color for the border, we should not neglect the bright fall foliage or the fine displays of fruit. The bright red leaves of *Euonymus alatus* or the clear yellow foliage of *Benzoin aestivale*, *Lindera benzoin*, enliven a fall day. The ability of plants to produce colorful fruits in early fall and hold this display for two months or more is a worthy consideration. *Viburnum dilatatum*, *V. setigerum* (*theiferum*), *V. americanum*, *Ilex verticillata*, *Cotoneaster apiculata*, *C. multiflora calocarpa*, *C. francheti* and others display red to

orange-red fruits for long periods in the fall.

The outer edge of the border often determines whether it is going to be pleasing or displeasing. The edge of the bed should be a long slow curve (see illustration) rather than a scalloped curve. Long graceful curves not only provide easier maintenance in edging and mowing, but are less distracting to the eye in that they eliminate a confusion of interests.

A border that begins with low shrubs near the lawn edge and builds up to the taller background plants is more pleasing than a border that has little or no variation of height from the front to the back. A ground cover such as *pachysandra* not only helps a border in this respect, but also emphasizes the curved edge (see illustration). Where you have used low plants near the outer edge, there is a feeling of more freedom or spaciousness in the area. That part of the property which is involved actually seems larger when the shrub border is treated in this manner rather than being planted with shrubs of the same height, even though this second border may be narrower.

The shorter the length of the shrub planting area, the more important it is that we do not use too many different species or varieties. If the border is no longer than forty feet, it is doubtful if an effective job can



Shrub border showing good curved edge and the inclusion of broad-leaved evergreens, as seen from a picture window.

Clarence E. Lewis is senior instructor in the school of horticulture at the Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

be done by employing more than three or four different types in the background of the border. If smaller shrubs are to be used in the foreground, then no more than three to five different types should be included with this background material. By using too much variety in borders of short length, forty to fifty feet, there is an effect of spotty interest rather than a feeling of restful harmony.

By applying plants to the border that have already been used in other plantings on the property we create a more harmonious over-all picture.

It is also important in short borders that we do not have an extreme variation in size of leaves. For instance, if *Viburnum sieboldi*, with its coarse foliage, is to be used, we should not place such smaller contrasting foliaged plants as *Caragana arborescens* or *Amorpha fruticosa* next to it. Neither are such strong contrasts adaptable to long borders (100 feet). It is often necessary to use smaller-leaved types in front of coarser-foliaged plants, but not next to them where they are competing for height.

Rarely should a border be so planned that a different species is placed next to the first plant, and then beside the second specimen is put even a third plant that is different from either of the first two. This procedure is followed in some borders so that the background is made up of about twelve or more different plants. Such a planting result presents a picture of spotty interest rather than providing enough body interest to sustain attention. Neither should we make the first, third and fifth plants the same while the second, fourth and sixth are similar. A more harmonious feeling is created by using groups of three or more of the same species, while occasionally breaking this with a single species. The longer the border the more important it is that groups include increasingly more of the same species in each group.

Rarely are single shrubs or small patches of shrubs effective in lawn areas. They not only tie in with nothing, but provide an interest for no apparent reason and make lawn mowing more difficult.

With the advent of the large picture window, we are confronted with the necessity of revising our thinking about the planning of shrub borders. During the winter period it is not encouraging to look out onto a shrub border and fail to see anything that even hints spring will ever come. It is better to employ some broad-leaved evergreens in order to give the border a more interesting winter aspect (see illustration on page 13). The witch hazels should also be welcome addi-

tions to such borders, or, if not in the border, then used so that they can be readily seen from the most lived-in room.

Where the border planting is near a terrace or rear outdoor living area, it might be well to employ such plants that give either a desirable odor from the flowers or from the foliage. Most outdoor areas are not used much until after the middle of May, and so such plants as *Philadelphus coronarius*, *vitex*, *lavandula* or *elsholtzia* that flower later or have desirable odors could be used.

A tree placed near the living area so that you look through or under its branches in order to see the shrub border makes the border seem even more pleasing.

Some plants should be avoided because of their tremendous spreading habit. Included in this group are *Forsythia suspensa*, *Lonicera morrowi*, etc. Others may cause trouble by distributing seeds that germinate readily. *Lonicera maackii* is a serious offender of this weedlike tendency.

It is well to have an idea of how high plants grow and how much they spread before using them. If plants that soon produce a definite contrast in height are used next to each other, then this not only requires more maintenance through pruning, but makes a disorganized-appearing shrub border.

If a client is interested in forcing cuttings during the winter period for interior flower arrangements, then we should include such easily forced plants as *Cornus mas*, *forisythia*, *cydonia* (*chaenomeles*), *benzoin* (*lindera*) and *corylopsis* in the plan. *Cornus alba sibirica*, *C. stolonifera* and *C. stolonifera flaviramea* might also be employed, since their colorful stems make interesting arrangements.

Where shrubs of spreading nature, used next to those of an upright habit, like *Ligustrum ovalifolium*, the spreading types should be brought forward enough in the border to allow the natural growth habit to take place. In this way we encourage the over-all appearance of the border to be effective rather than ineffective. Straight rows of shrubs are not so interesting as when they are staggered slightly. This is particularly true of long borders.

A shrub border is only as good as it is planned. The more thought it receives before planting, the more lasting interest it provides to those who live with it.

HIGH-CLEARANCE TRACTOR.

Production of a new Hi-Clearance model GH tractor has been announced by Grand Haven Stamped Products Co., Grand Haven, Mich. Developed at the suggestion of several nurserymen, the new model has a clearance of thirty-four inches. Adapted for cultivating work, it will handle trees up to four feet in height.

Another feature of the GH Hi-Clearance model is the development of a special furrowing tool for lining out seedling rows.

Designed to sell for little more than some of the bigger 2-wheel walking-type tractors, it offers a "ride while you work" advantage plus the other features built into the GH tractor and implements.

A 50-YEAR charter of incorporation has been granted to C. & H. Nursery, Amarillo, Tex., with authorized capital stock listed at \$1,000. Incorporators were C. G. Clayton, H. T. Benton and C. C. Perkins.



New Tractor with 34-inch Clearance.

Holly Society Holds 2-day Meeting

By Harry W. Dengler, Vice-president

Members from ten states attended the annual fall meeting of the Holly Society of America, Inc., November 17 and 18 at the New Jersey agricultural experiment station, New Brunswick. The departure from the society's usual one-day meeting was deemed necessary to allow ample opportunity for more thorough discussions on subjects of common interest.

At the business session November 18 all officers were reelected by acclamation for another term. They are: President, C. R. Wolf, president of the New Jersey Silica Sand Co., Millvale, N. J.; vice-president, Harry W. Dengler, extension forester, University of Maryland extension service, College Park, and Charles A. Young, Jr., park forester, Baltimore, Md.

Unusual Holly Forest.

The afternoon of November 17 the group toured sections of Fort Hancock on the tip of Sandy Hook, across from the entrance to the harbor of New York city. As guests of Col. C. D. Y. Ostrom, the members inspected a natural stand of exceptionally heavy-berried hollies of rare scenic beauty. This unique forest contained native hollies of all sizes, including many over two feet in diameter. The trees were growing in nearly pure sand but a few feet above sea level. At times approaching a pure grove of great hollies, the forest was on a long narrow and windswept peninsula nearly two miles in length.

Undoubtedly, this holly forest contains the largest and oldest specimens and is the most extensive outpost of virgin American holly to be found in the eastern United States. The existence of this unusual forest can only be credited to the vigilance which the United States Army has exerted in protecting the trees from the destructive vandalism of greedy seekers of holiday greenery.

In view of the irreplaceable value of this holly forest and its proximity to the great population centers near by, the society appointed a committee to study the desirability of requesting either state or federal authorities to set this area aside as a holly forest or park whereby it may be preserved for posterity.

Southern Hollies.

Dr. William C. Frierson, Frierson's Flowers, Denmark, S. C., entertained the members during the

evening meeting with interesting accounts of his travels in search of rare and unusual hollies. An authority on hollies in the south, Dr. Frierson believes that southern hollies are not so hardy in the north and consequently should be planted there with caution. Northern hollies, however, appear to do well in the south. The selection Reynolds is probably one of the better and hardier of the southern hollies. Fallow, he stated, is a good yellow-fruited variety of *Ilex opaca*. Selections from the higher altitudes of West Virginia and Tennessee are undoubtedly the hardiest of the southern hollies. Motion pictures of a golden holly found in the mountains of North Carolina and an odd yellow-leaved holly were of unusual interest.

Daniel Fenton, New Jersey Silica Sand Co., Millville, N. J., presented an illustrated talk on the interest of his company in holly, which, he explained, is a hobby for the company's officers and employees but also provides useful advertising values. With Kodachrome slides, Mr. Fenton traced the development of the company-owned holly orchard and showed the great improvement in the vigor of the trees through proper spraying, fertilizing and mulching.

He told how holly was cut, boxed and shipped to friends and customers of the firm. He explained the use of a double-propeller wind machine to reduce frost damage in low areas in the orchard during critical cool periods in the spring and described how mulching with salt hay was often necessary to prevent snow burning of holly foliage in the winter.

Pests of Holly.

The second day's sessions were held at the Log Cabin Lodge of New Jersey agricultural research station and were devoted to committee reports, election of officers, discussions and readings of formal papers.

Spencer Davis, New Jersey agricultural experiment station, recommended that copper sprays be used with caution on holly because of possible leaf injury. So-called purple blotch on holly leaves is apparently not caused by a disease organism but may be a physiological condition, Mr. Davis believes. A gray mold blight on male holly flowers was noted to be prevalent last spring, he observed.

Dr. Clyde C. Hamilton, entomologist, New Jersey agricultural experi-

ment station, reported on the use of Vaportone XX as a spray for the control of southern red mite, *Paratetranychus ilicis* (McG.). This gave practically a 100 per cent kill of spider mites, Dr. Hamilton stated, but it may be necessary to make applications at approximately one-month intervals. Trees sprayed with Vaportone XX had foliage in good condition; little injury or discoloration from red mite feeding was evident on treated trees.

Holly leaf miners have not caused much injury where DDT sprays have been applied for their control. It is believed that additional work on the life history of both the European and American holly leaf miners might well be done. For several years, Dr. Hamilton noted, mines in holly leaves have been observed which are intermediate in their shape between the blotch type of mine of the European holly leaf miner and the long, slender serpentine type of mine of the American species. Adults of this type of leaf miner have not yet been obtained for identification. In regard to the concern about the widespread killing of the parasites and predators of holly insects through spraying, Dr. Hamilton was of the opinion that in holly orchards, where good foliage is required, adequate spraying is essential.

Dr. O. W. Davidson, soils department, New Jersey agricultural experiment station, stated that a lack of potash in the soil has an effect on the hardiness of hollies. But the addition of potash as a soil fertilizer does not make holly trees more winter hardy if adequate amounts are already present.

A discussion by the members indicated that mulches made for more uniform growth of orchard-grown trees and that mulches helped to reduce winter injury. In heavy soils a mulch of sand retarded the formation of harmful "frost collars" at the bases of holly trees in exposed areas. The addition of cottonseed meal to certain mulches enhanced their usefulness, but had a tendency to attract mice.

Holly in Arboretums.

Wilfrid Wheeler, formerly the commissioner of agriculture for the state of Massachusetts and now a holly nurseryman at Falmouth, Mass., reported on the work of the society's arboretum committee. Thirty-eight

out of forty-seven replies to eighty-eight inquiries sent to arboretums indicated that one or more species of holly were in their collections. Seven arboretums were found to be studying one or more phases of holly culture. These included breeding, nutritional requirements and proper methods of cultivation.

Gustav Malmberg, well known plantsman and nurseryman at Manheim, Pa., reported on his recent collection trip to Norway, Sweden and Denmark. In those countries he found that, due to three successive years of intense winter weather, all hollies of the *Ilex aquifolium* type were severely damaged. Trees as large as eighteen inches in diameter froze to the ground, and the regrowth also froze to the ground. Mr. Malmberg felt that selections of *Ilex opaca* might be better suited for growing in those areas.

In a discussion on marketing of holly plants, Earle Dilatush, holly specialist at Robbinsville, N. J., stated that despite careful packaging of specimen hollies he sustains a twenty-five per cent loss of trees in transit through improper handling. This is largely from broken trunks and branches. A pioneer in the field of selling holly plants by the "nature pack" method, Mr. Dilatush indicated that he is now perfecting a system of shipping live plants in barrels. These may weigh up to 300 pounds and should be impossible to damage. Mr. Dilatush exhibited his latest innovation in the packaging of small holly plants. This consisted of an attractive, vivid red mailing tube container for the young trees.

Propagation Techniques.

During her demonstration of propagation techniques, Miss June Vail, Whitesbog Holly Nursery, Whitesbog, N. J., stated that conditions for rooting holly cuttings vary from locality to locality. Places for propagating hollies must be selected accordingly. She believes that every variety has a certain period during which cuttings may be taken when they will root readily. Just as each person is an individual, so is it likely that each holly variety exhibits individual characteristics.

Hollies do not require high temperatures for proper rooting, she observed. Many nurserymen may keep their greenhouse temperatures too high for good rooting; about a 40-degree temperature throughout the winter works best for her at Whitesbog, she related.

Benches for propagating hollies at Whitesbog have wire bottoms; a

layer of sphagnum moss prevents the half sand and half peat moss medium from falling through. Watering should be done only in the morning, preferably before sunup and never later than 10 a. m. Cuttings are set at an angle, with the leaves as horizontal as possible to the surface of the medium. The tip of the cutting must not be embedded in the medium, she stated. It is highly important that cuttings be tightly pressed into the propagating benches.

Observational Nursery.

Wilmer W. Steiner, nursery manager of the national observational nursery of the United States Soil Conservation Service, Beltsville, Md., explained the work of his organization in collecting, propagating and studying all types of native and introduced plant materials of potential value for soil, water and wild life conservation. This nursery is engaged primarily in observational plant testing rather than the large-scale production of grasses, legumes and woody plants as is done by other soil conservation nurseries. Following exhaustive studies here, outstanding strains and species are increased by seed or vegetative methods. This material, Mr. Steiner stated, is then released to various regions where they are tested further, both in regional nurseries and on farms co-operating with local soil conservation districts.

Holly is one of the many plants being studied at this nursery. Properly grown, holly is known to be a valuable cash crop and is harvested at a time that does not interfere with other farm operations. The dense foliage of this species, as well as fallen leaves beneath the tree, makes it a good plant for erosion control. Unfortunately, Mr. Steiner observed, much of the cut holly reaching the big city markets around Christmas time is decidedly inferior in quality. In order to make higher-quality stock available and foster the use of holly for conservation purposes, the observational nursery has assembled and propagated several selections which appear to have superior characteristics. Of these, Richards, a Maryland selection, and Helvetia, a variety from West Virginia, show real promise.

The distribution of these holly clones from Beltsville, Mr. Steiner said, is restricted to use in soil conservation districts or selected co-operators' farms, purely as demonstration plantings to show the use of holly as a conservation farm crop. As the value of holly for this purpose

becomes better understood and the demand for planting stock increases, stock will have to be supplied by commercial nurseries. To further this effort, the Soil Conservation Service has turned over plants of its best holly clones to the United States Department of Agriculture, bureau of plant industry, Beltsville, Md., one of whose functions is to propagate and disseminate such materials to interested commercial nurserymen. Foundation stock of the Richards and Helvetia hollies should be available to them in the next few years, Mr. Steiner stated.

Other Features.

One of the features of the society's 2-day meeting was listening to a transcription made by Ambrose Brownell, Milwaukee, Ore., one of the largest English holly nurserymen and producers of holly sprays and wreaths in the world. He was unable to attend the meeting so sent personal greetings by transcription to his many east coast friends and regretted that he could be present only in spirit.

In a fascinating talk, Mr. Brownell traced the development of the Brownell Holly Farm from its modest beginnings in 1900 to the establishment of his *ilexetum*, an arboretum devoted exclusively to a collection of hollies from all over the world. "Pictures are being painted at the Brownell farms," he stated, "not with oils, nor with textiles or ceramics, but with sweeping lawns of green, studded with random spaced plantings of the loveliest of specimen hollies." Here will be found the glossy-leaved Europeans and the North American *opacas*. Spaces are reserved for South American species, the most numerous of all, and the sides of a grassy valley are to be embroidered with the dwarf crenatas and curious hollies of the Orient. Well over 100 specimens have already been assembled, Mr. Brownell related, each shrub and tree authentically named, both as to botanical species and horticulture variety. Each day brings new visitors to the Brownell *ilexetum*, he added.

Other subjects discussed included the need for some type of registration of varieties and selections for official and commercial use. Miss Elizabeth White, holly and blueberry specialist, Whitesbog, N. J., stated that nurserymen must pay more attention to the blooming habits of both male and female hollies. There is a need, too, she stated, for some system of indicating the time of flowering, since an early-blooming male,

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How To Keep Awake in Winter

By a One-horse Nurseryman

There are a lot of nurserymen in the northern part of the country that are about in the same boat, so far as winter activities are concerned. What I am about to talk about is a problem among us smaller operators who do not have a greenhouse or who do not make a big-time job of winter tree moving. We wish to keep a man or two over the winter. I hope to offer some ideas, though most of them you may already know, that will help to make the most of the many small opportunities for improving our business. A successful businessman in the nursery or in any other field seldom gets that way through any spectacular circumstances. Rather, he prospers if he continually observes many small and sometimes seemingly trivial ways to better his methods of operation. It has been my practice to make out a long list of things to do in the winter. Some of these things are not done, but at least they are not completely overlooked.

As I do not keep a perpetual inventory, each winter I first take a complete inventory, carefully comparing it with estimated sales of each item for spring. Practically all purchases are covered by this time, except for emergency needs later. Also, I like to know the total sales for each type of stock. If you make a copy of each order at time of sale, this information is easily available. I divide sales into fifteen or more classifications so that I may see from year to year in which item sales are going up or down. Income from sales of shrubs, shade trees, small fruits, roses, evergreens, bulbs, garden accessories, labor, etc., are determined and compared with the previous year. If the sales of some item are slipping, maybe prices are off or the method of display or sale needs changing. If sales for an item are declining each year, it is better to drop it and add something else. On important items among evergreens, shrubs or shade trees, I count up the number of trees sold. Before you realize it, you may be selling 500 of an item and only have been planting 250. These checks are not necessary on every item, but I think it is important with your main items.

If you operate a garden shop with your business, winter is a good time to be on the lookout for new articles advertised in trade and garden magazines or on sale in other shops. Or

you may find other sources of supply for pottery, furniture and such items, that offer a more attractive line or more salable items for your location. It is well to order all such items early; so you will have them before your competitors and not after the season is half over, as sometimes happens.

Winter is the time to lay out general plans for advertising in spring. Decide on what you will spend and where. Try to locate good advertising illustrations and sales ideas. Some of your best ideas may come from department stores and other establishments that employ fine advertising talent. Often you can borrow an idea. This is easier than waiting until next April and trying to think up ideas after supper when you are tired and rushed.

Income tax papers should be given a thorough going over. If you are not too good at this sort of thing, by all means obtain help. Remember, these are complicated documents, and if you overpay over a period of years nobody is going to tell you. Talk to some other nurserymen who may have discovered some short cuts which are perfectly legal but not so obvious.

One winter occupation which I enjoy is making up display pictures for use in the sales office. A good way to go about this is cut some cardboard sheets about 7x10 inches and mount each variety on a separate sheet. These I fasten to the wall with thumb tacks. If mounted in this way, the assortment may be changed from time to time. All varieties worth selling may be found somewhere in colored pictures. The best sources are the wholesale and retail catalogs. Varieties which are of interest mostly because of differences in color seldom can be sold without colored pictures. This is especially true of roses, chrysanthemums, tulips and other bulbs. Pictures of tulips and other Dutch bulbs should be put on display in the spring when they are in bloom, to take orders for fall delivery. Many customers will be glad to order bulbs in the spring if they are reminded of it and see a good will at a small cost.

This brings to mind an old custom sometimes overlooked. Last fall I ordered several hundred narcissus bulbs for indoor use, and each customer for tulips was given a free premium. Similarly, a chrysanthemum plant given with an order of shrubs will create a big measure of good will at a small cost.

During the winter is a good time to check the building permits in your sales territory, and if you cannot make personal calls or do not believe in them, at least write a personal letter, offering to make a planting plan or offering planting suggestions.

If you have a plate book or picture book or whatever you use to help in making calls, go over it with a fresh viewpoint. Maybe it needs a complete remaking. At least add some new things and throw out any pictures that are not of good design or are not true to form or color. In this connection, investigate the possibility of taking your own pictures. The new camera that takes and develops pictures in one operation might be a good investment. Many nurserymen have long made use of cameras to take pictures for colored slides. These may be used to advantage both in selling and in giving garden talks.

The winter is a good time to go to a trade meeting. You should resolve each year to try some new practice. For instance, many nurserymen are successfully using Dowax to move trees and shrubs after the usual season is over. Perhaps you have an idea you can pass on to other nurserymen.

One thing I intend to do this winter is to cultivate the local park superintendent and the man in charge of the grounds in the school system. You may be able to help them with suggestions, and they, in turn, may discover you have something they need. Make a date to drive through the city, visiting parks and school grounds. If you cannot come up with some new ideas for these men, you do not belong in the nursery business.

Are you troubled with competition from chain stores or department stores selling nursery stock? If you do not know the manager of your local store, cultivate his acquaintance. He will turn out to be a real fellow. He has only one or two advantages over you. He may have a better location and he may undersell you. On the other hand, you can advertise fresh-dug stock, expert planting advice and planting service. You may also, if you wish, have a few competitive items on which you can

[Concluded on page 61.]

SURPLUS LIST

FOREST NURSERY CO., Inc.

Day Phone 234

McMINNVILLE, TENN.

Night Phone 17W

J. R. BOYD, Pres.

We offer for Spring delivery the following list of Deciduous Flowering Shrubs; Forest and Nut Trees; Vines and Creepers; Coniferous and Broad-leaved Evergreens; Cherries; Rhubarb and Asparagus, and Hardwood Cuttings.

S—Seedlings; C—Cuttings; Tr.—Transplanted; Br.—Branched; L.O.—Lining-out; Div.—Divisions.

HARDY DECIDUOUS FLOWERING SHRUBS

ACANTHOPANAX PENTAPHYLLUM.

	Per 10	Per 100	Per 1000
Five-leaved Aralia.			
12 to 18 ins., C.	\$0.60	\$ 5.50	\$ 50.00
18 to 24 ins., Well Br.	1.50	12.00	
2 to 3 ft., Tr., Well Br.	2.00	15.00	
3 to 4 ft., Tr., Well Br.	3.00	25.00	

ALMOND, *Prunus Glendulosa*.

	Per 10	Per 100	Per 1000
Double, Pink-flowering Almond (Own-root).			
L.O., 12 to 18 ins.	2.00	12.00	110.00
12 to 18 ins., Tr., Well Br.	2.50	20.00	
18 to 24 ins., Tr., Well Br.	3.00	25.00	
2 to 3 ft., Tr., Well Br.	4.00	35.00	

ALTHAEA, *Hibiscus Syriacus*. Shrub Althaea.

Varieties:

	Per 10	Per 100	Per 1000
Amplissimus, Double Red.			
12 to 18 ins., C.	.50	3.50	30.00
18 to 24 ins., C.	.60	4.00	35.00
12 to 18 ins., Tr.	1.00	8.00	60.00
18 to 24 ins., Tr.	1.50	12.00	100.00
2 to 3 ft., Tr.	2.00	15.00	125.00

Ardens, Double Violet.

	Per 10	Per 100	Per 1000
12 to 18 ins., C.	.50	3.50	30.00
18 to 24 ins., C.	.60	4.00	35.00
12 to 18 ins., Tr.	1.00	8.00	60.00
18 to 24 ins., Tr.	1.50	12.00	100.00
2 to 3 ft., Tr.	2.00	15.00	

Rubis, Single Red.

	Per 10	Per 100	Per 1000
6 to 12 ins., 1-yr. C.	.50	4.50	
12 to 18 ins., 1-yr. C.	.60	5.50	
18 to 24 ins., 1-yr. C.	.75	6.50	

Rosea, Single flowers, mixed colors.

	Per 10	Per 100	Per 1000
4 to 6 ins., S.	.50	4.00	
6 to 12 ins., S.	.80	7.00	
12 to 18 ins., S.	1.25	10.00	
18 to 24 ins., S.	1.50	12.00	

BENZOIN AESTIVALE. Spicebush.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.50	4.00	30.00
12 to 18 ins., S.	.60	5.00	40.00
18 to 24 ins., S.	.70	6.00	50.00
18 to 24 ins., Tr.	2.00	17.50	
2 to 3 ft., Tr.	2.50	22.50	
3 to 4 ft., Tr.	3.50	30.00	

BERBERIS THUNBERGI. Green-leaved Barberry.

	Per 10	Per 100	Per 1000
6 to 9 ins., S., 2-yr.	.40	3.00	25.00
9 to 12 ins., S., 2-yr.	.50	4.00	30.00
9 to 12 ins., S., 2-yr., Br.	.60	5.00	40.00
12 to 15 ins., S., 2-yr., Br.	.70	6.00	50.00
15 to 18 ins., 2-yr. S., Br.	.80	7.00	60.00
18 to 24 ins., 2-yr. S., Br.	1.00	8.00	70.00
12 to 15 ins., 3-yr. Tr.	1.50	12.50	
15 to 18 ins., 3-yr. Tr.	2.00	15.00	
18 to 24 ins., 3-yr. Tr.	2.50	20.00	

BUDDLEIA DAVIDI. Butterfly Bush.

	Per 10	Per 100	Per 1000
12 to 18 ins., 1-yr. Tr., No. 2	1.50	12.50	
18 to 24 ins., 2-yr. Tr., Medium	2.00	15.00	
2 to 3 ft., 2-yr. Tr., No. 1	3.00	20.00	
2 to 3 ft., 2-yr. Tr., Heavy	3.50	25.00	

CALYCANTHUS FLORIDUS. Sweet Shrub.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.50	3.00	25.00
12 to 18 ins., S.	.70	4.00	35.00
18 to 24 ins., S.	1.00	7.00	60.00
12 to 18 ins., 2-yr. S., Br.	1.50	12.50	100.00

CARAGANA ARBORESCENS. Siberian Pea Tree.

	Per 10	Per 100	Per 1000
4 to 6 ins., L.O.	.25	1.50	10.00
6 to 12 ins., L.O.	.30	2.00	15.00

CEPHALANTHUS OCCIDENTALIS.

	Per 10	Per 100	Per 1000
Buttonbush.			
6 to 12 ins., C.	\$0.40	\$ 3.50	\$ 30.00
12 to 18 ins., C.	.50	4.00	35.00
18 to 24 ins., Tr.	1.00	8.00	
2 to 3 ft., Tr.	1.50	12.00	

CITRUS TRIFOLIATA.

Hardy Orange.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.60	5.00	
12 to 18 ins., S.	.80	7.00	
18 to 24 ins., S.	.95	8.50	
12 to 18 ins., S.	.80	7.00	
18 to 24 ins., S.	.95	8.50	

CORNUS AMOMUM. Silky Dogwood.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.30	2.50	20.00
12 to 18 ins., S.	.40	3.00	25.00
18 to 24 ins., S.	.50	4.00	35.00

CORNUS STOLONIFERA.

Red Osier Dogwood.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.20	1.25	10.00
12 to 18 ins., S.	.30	2.00	15.00
18 to 24 ins., S.	.40	3.00	20.00
2 to 3 ft., S.	.50	4.00	25.00

CORYLUS AMERICANA. American Filbert.

CORYLUS AVELLANA. European Filbert.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.60	5.00	45.00
12 to 18 ins., S.	.70	6.00	55.00
18 to 24 ins., S.	.90	8.00	

CYDONIA JAPONICA. Japanese Quince.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.40	3.00	25.00
12 to 18 ins., 2-yr. S.	.50	4.00	35.00
18 to 24 ins., 2-yr. S.	.60	5.00	45.00
2 to 3 ft., 2-yr. S.	.70	6.00	55.00
2 to 3 ft., 3-yr., Well Br.	2.50	20.00	175.00

CYDONIA JAPONICA RUBRA.

Japanese Quince.

True upright red, nonfruiting.

	Per 10	Per 100	Per 1000
4 to 6 ins., C., L.O.	.80	7.00	60.00
6 to 12 ins., C., L.O.	1.00	8.00	75.00
12 to 18 ins., C., L.O.	1.75	15.00	120.00
12 to 18 ins., 2-yr., Well Br.	3.00	25.00	200.00
18 to 24 ins., 2-yr., Well Br.	4.00	35.00	300.00
2 to 3 ft., 3-yr., Well Br.	5.00	40.00	350.00
3 to 4 ft., 3-yr., Well Br.	6.00	50.00	

DEUTZIA SCABRA.

Varieties: Candida, Double White; Crenata,

Double Pink; Pride of Rochester,

Double Red.

	Per 10	Per 100	Per 1000
12 to 18 ins., Well Br.	.70	6.00	50.00
18 to 24 ins., Well Br.	1.25	10.00	80.00
2 to 3 ft., Well Br.	1.50	12.00	100.00
3 to 4 ft., Well Br.	2.00	15.00	125.00
4 to 5 ft., Heavy	3.00	25.00	

FORSYTHIA FORTUNEI. Fortune Forsythia.

FORSYTHIA INTERMEDIA.

Border Forsythia.

	Per 10	Per 100	Per 1000
6 to 12 ins., C.	.30	2.50	20.00
12 to 18 ins., C.	.35	3.00	25.00
18 to 24 ins., C.	.40	3.50	30.00
2 to 3 ft., C.	.60	5.00	40.00
12 to 18 ins., Well Br.	.60	5.00	40.00
18 to 24 ins., Well Br.	1.50	12.00	100.00

SURPLUS LIST—FOREST NURSERY CO.

HARDY DECIDUOUS FLOWERING SHRUBS—Continued

FORSYTHIA SPECTABILIS.

Showy Border Forsythia.	Per 10	Per 100	Per 1000
6 to 12 ins., 1-yr. C.	\$0.50	\$ 3.50	\$ 30.00
12 to 18 ins., 1-yr. C.	.60	4.00	35.00
18 to 24 ins., Well Br.	1.50	12.00	100.00

HAMAMELIS VIRGINIANA, Witch Hazel.

18 to 24 ins., S.	.80	7.00	60.00
2 to 3 ft., S.	1.00	9.00	80.00

HYDRANGEA ARBORESCENS.

Wild Native Hydrangea.	Per 10	Per 100	Per 1000
6 to 12 ins., 1-yr. S.	.30	2.50	20.00
12 to 18 ins., 1-yr. S.	.40	3.50	30.00
18 to 24 ins., 1-yr. S.	.50	4.50	40.00

HYDRANGEA PANICULATA

GRANDIFLORA.

Peegee Hydrangea.	Per 10	Per 100	Per 1000
4 to 6 ins., 1-yr. C.	.70	6.00	...
6 to 12 ins., 1-yr. C.	.80	7.00	...
12 to 18 ins., 1-yr. C.	1.25	10.00	...
12 to 18 ins., 2-yr., Well Br.	2.00	15.00	...
18 to 24 ins., 2-yr., Well Br.	3.00	25.00	...
2 to 3 ft., 2-yr., Well Br.	4.00	35.00	...

LAGERSTROEMIA INDICA.

Pink, Red, White Crape Myrtle.	Per 10	Per 100	Per 1000
12 to 18 ins., Tr.	2.50	20.00	...
18 to 24 ins., Tr.	3.00	25.00	...
2 to 3 ft., Tr.	4.00	30.00	...

LIGUSTRUM AMURENSE.

Amur River North Privet.	Per 10	Per 100	Per 1000
L.O., Field-grown, 1 and 2 canes.	.30	2.00	17.50
6 to 12 ins., 2 Br. up.	.40	3.00	25.00
12 to 18 ins., 2 Br.	.50	4.00	35.00
18 to 24 ins., 2 Br.	.60	5.00	45.00

LIGUSTRUM IBOLIUM, Ibolium Privet.

L.O., Field-grown, 1 and 2 branches.	Per 10	Per 100	Per 1000
6 to 12 ins., 2 Br. up.	.40	3.00	25.00
12 to 18 ins., 2 Br.	.50	4.00	35.00
12 to 18 ins., 3 Br. up.	.60	5.00	45.00
18 to 24 ins., 2 Br.	.60	5.00	45.00
18 to 24 ins., 3 Br. up.	.80	6.00	50.00
2 to 3 ft., 4 Br. up.	1.00	7.00	65.00
3 to 4 ft., 4 Br. up.	1.25	9.00	80.00

(10 per cent discount allowed on lots of 10,000 or more.)

LIGUSTRUM OVALIFOLIUM.

California Privet.	Per 10	Per 100	Per 1000
L.O., Field-grown	.25	1.50	10.00
6 to 12 ins., 2 Br. up.	.30	2.00	15.00
12 to 18 ins., 2 Br., 2-yr.	.35	3.00	25.00
12 to 18 ins., 3 Br. up, 2-yr.	.45	3.50	30.00
18 to 24 ins., 2 Br. 2-yr.	.45	3.50	30.00

(10 per cent discount allowed on lots of 10,000 or more.)

LIGUSTRUM SINENSE.

Amur River South Privet.	Per 10	Per 100	Per 1000
4 to 6 ins., S.	.60	3.50	...
6 to 12 ins., S.	.80	5.00	...
12 to 18 ins., S.	1.00	6.00	...
18 to 24 ins., S.	1.25	8.00	...
2 to 3 ft., S.	2.00	18.00	...

LIGUSTRUM VULGARE.

European Privet.	Per 10	Per 100	Per 1000
4 to 6 ins., C.	.30	2.00	15.00
6 to 12 ins., C.	.40	3.00	20.00
12 to 18 ins., C., 2-yr., 2 Canes up.	.50	4.00	...
18 to 24 ins., C., 2-yr., 3 Canes up.	.80	7.00	...

LONICERA FRAGRANTISSIMA.

Winter Honeysuckle.	Per 10	Per 100	Per 1000
6 to 12 ins., C.	.40	3.00	25.00
12 to 18 ins., C.	.45	3.50	30.00
18 to 24 ins., C.	.50	4.00	35.00
12 to 18 ins., C., 3 Br. up.	.90	8.00	70.00
18 to 24 ins., C., 3 Br. up.	1.25	10.00	90.00
2 to 3 ft., C., 4 Br. up.	2.00	15.00	125.00

LONICERA MORROWI.

Morrow's Honeysuckle.	Per 10	Per 100	Per 1000
4 to 6 ins., C.	.30	2.00	15.00
6 to 12 ins., C.	.40	3.00	20.00
12 to 18 ins., C.	.50	4.00	30.00
18 to 24 ins., C.	.60	5.00	40.00

LONICERA TATARICA.

Tatarian Honeysuckle.	Per 10	Per 100	Per 1000
4 to 6 ins., C.	.30	2.00	15.00
6 to 12 ins., C.	.40	3.00	20.00
12 to 18 ins., C.	.50	4.00	30.00
18 to 24 ins., C.	.60	5.00	40.00

Varieties of Tatarian: Alba, White;

Rosea, Pink; Rubra, Red.	Per 10	Per 100	Per 1000
4 to 6 ins., C.	.30	2.00	15.00
6 to 12 ins., C.	.40	3.00	20.00
12 to 18 ins., C.	.50	4.00	30.00
18 to 24 ins., C.	.60	5.00	40.00

PHILADELPHUS CORONARIUS.

Sweet Mock Orange.	Per 10	Per 100	Per 1000
6 to 12 ins., 1-yr. C.	\$0.40	\$ 3.50	\$ 30.00
12 to 18 ins., 1-yr. C.	.50	4.00	35.00
18 to 24 ins., 1-yr. C.	.60	5.00	45.00
12 to 18 ins., 2-yr., Well Br.	1.00	8.00	...
18 to 24 ins., 2-yr., Well Br.	1.25	10.00	...
2 to 3 ft., Well Br.	2.00	15.00	...

RHUS COPALLINA, Shining Sumac.

RHUS GLABRA, Smooth Sumac.	Per 10	Per 100	Per 1000
RHUS TYPHINA, Staghorn Sumac.			
6 to 12 ins., S.	1.00	8.00	...
12 to 18 ins., S.	.15	1.25	10.00
18 to 24 ins., S.	.20	1.50	12.00
2 to 3 ft., S.	.30	2.00	15.00
3 to 4 ft., S.	.45	3.50	30.00

ROBINIA HISPIDA, Rose Acacia.

12 to 18 ins., L.O.	.35	2.50	20.00
18 to 24 ins., L.O.	.40	3.00	25.00
2 to 3 ft., L.O.	.50	4.00	30.00

SPIRAEA ARGUTA, Garland Spiraea.

6 to 12 ins., C.	.70	6.00	50.00
12 to 18 ins., C.	.90	8.00	70.00
12 to 18 ins., Tr.	1.50	12.50	...
18 to 24 ins., Tr., 2-yr.	2.00	15.00	...
2 to 3 ft., Tr., 2-yr.	2.50	20.00	...

SPIRAEA BILLIARDI ALBA.

White Spike Bloom Spiraea.	Per 10	Per 100	Per 1000
12 to 18 ins., 1-yr. C.	.50	4.00	30.00
18 to 24 ins., 1-yr. C.	.60	4.50	40.00
12 to 18 ins., 2-yr., Well Br.	.70	6.00	50.00
18 to 24 ins., 2-yr., Well Br.	1.00	8.00	70.00

SPIRAEA CALLOSA ROSEA.

Pink Fortune Spiraea.	Per 10	Per 100	Per 1000
6 to 12 ins., S.	3.00	25.00	...
12 to 18 ins., S.	3.50	30.00	...
18 to 24 ins., S.	4.00	35.00	...

SPIRAEA OPULIFOLIA AUREA.

Golden Spiraea.	Per 10	Per 100	Per 1000
18 to 24 ins., 2-yr., Br.	2.00	15.00	...
2 to 3 ft., 2-yr., Br.	2.50	20.00	...

SPIRAEA PRUNIFOLIA, Bridal Wreath.

12 to 18 ins., L.O.	.70	6.00	50.00
18 to 30 ins., Div., L.O.	.80	7.00	60.00
12 to 18 ins., 1-yr. Tr., field-grown, L.O.	1.25	10.00	80.00
18 to 24 ins., 1-yr. Tr., field-grown, L.O.	1.50	12.50	100.00
12 to 18 ins., 2-yr., Well Br.	2.00	15.00	125.00
18 to 24 ins., 2-yr., Well Br.	2.50	20.00	175.00
2 to 3 ft., 2-yr., Well Br.	3.00	25.00	200.00
3 to 4 ft., 2-yr., Well Br.	3.50	25.00	...

SPIRAEA THUNBERGI, Thunberg Spiraea.

12 to 18 ins., L.O., Div.	.70	6.00	50.00
18 to 24 ins., Div.	.80	7.00	60.00
6 to 12 ins., C.	.70	6.00	50.00
12 to 18 ins., C.	.90	8.00	70.00
12 to 18 ins., 2-yr., Well Br.	1.50	12.50	100.00
18 to 24 ins., 2-yr., Well Br.	2.00	15.00	125.00
2 to 3 ft., 2-yr., Well Br.	2.50	20.00	...
3 to 4 ft., 2-yr., Well Br.	3.00	25.00	...

SPIRAEA VANHOUTTEI.

Vanhoutte Spiraea.	Per 10	Per 100	Per 1000
L.O., Field-grown	.35	2.50	20.00
6 to 12 ins., C.	.40	3.50	25.00
12 to 18 ins., C.	.50	4.00	35.00
9 to 12 ins., Hedging.	.50	4.00	30.00
12 to 18 ins., Hedging.	.65	5.00	45.00
2 to 3 ft., 2-yr., Well Br.	2.50	20.00	175.00
3 to 4 ft., 3-yr., Well Br.	3.00	25.00	...

STAPHYLEA TRIFOLIA.

American Bladdernut.	Per 10	Per 100	Per 1000
6 to 12 ins.	.50	4.00	35.00
12 to 18 ins.	.60	5.00	45.00
18 to 24 ins.	.80	7.00	65.00
2 to 3 ft.	1.00	9.00	80.00
3 to 4 ft.	2.00	17.50	...

Turn the page for Forest and Shade Trees, Vines and Creepers, Evergreens and Hardwood Cuttings.

SURPLUS LIST—FOREST NURSERY CO.

HARDY DECIDUOUS FLOWERING SHRUBS—Continued

SYMPHORICARPOS VULGARIS.

	Per 10	Per 100	Per 1000
Coralberry.			
6 to 12 ins., 1-yr. C.	\$ 2.00	\$ 15.00	
12 to 18 ins., 1-yr. C.	2.50	20.00	
18 to 24 ins., 1-yr. C.	3.50	30.00	
12 to 18 ins., 1-yr., Well Br.	\$0.60	5.00	40.00
18 to 24 ins., 2-yr., Well Br.	1.00	8.00	60.00

SYRINGA PERSICA. Persian Lilac, Purple.

4 to 6 ins., 1-yr. C.	.80	7.00	60.00
6 to 12 ins., 1-yr. C.	1.00	9.00	80.00
12 to 18 ins., 1-yr. C.	1.25	10.00	90.00
18 to 24 ins., 1-yr. C.	1.50	12.50	100.00

VIBURNUM TOMENTOSUM.

Double-file Viburnum.			
4 to 6 ins., 1-yr. C.	1.00	8.00	
6 to 12 ins., 1-yr. C.	1.25	10.00	
12 to 18 ins., C.	1.50	12.50	
18 to 24 ins., C.	2.00	17.50	

WEIGELA AMABILIS. Light Pink.

4 to 6 ins., C.	.35	3.00	25.00
6 to 12 ins., C.	.45	4.00	35.00
12 to 18 ins., C.	.55	5.00	45.00
18 to 24 ins., C.	.65	6.00	55.00

WEIGELA CANDIDA. Pure White.

12 to 18 ins., 2-yr. C.	3.00	25.00	
18 to 24 ins., 2-yr. C.	3.50	30.00	
2 to 3 ft., 2-yr. C.	4.00	35.00	

WEIGELA FLORIBUNDA. Red.

6 to 12 ins., C.	1.50	12.00	100.00
12 to 18 ins., C.	2.00	15.00	125.00
12 to 18 ins., 2-yr., Br.	3.00	25.00	
18 to 24 ins., 2-yr., Br.	3.50	30.00	
2 to 3 ft., 2-yr., Br.	4.00	35.00	

WEIGELA GIGANTIFLORA. Dark Pink.

	Per 10	Per 100	Per 1000
6 to 12 ins., C.	\$0.45	\$ 4.00	\$35.00
12 to 18 ins., C.	.55	5.00	45.00
18 to 24 ins., C.	.65	6.00	55.00

WEIGELA HENDERSONI. Dark Pink.

Lining-out	.35	3.00	25.00
6 to 12 ins., C.	.45	4.00	35.00
12 to 18 ins., C.	.55	5.00	45.00
18 to 24 ins., C.	.65	6.00	
2 to 3 ft., Well Br.	2.50	20.00	
3 to 4 ft., Well Br.	2.75	25.00	

WEIGELA LUTEA. Yellow Weigela.

6 to 12 ins., 1-yr. C.	.60	5.00	
12 to 18 ins., 1-yr. C.	.80	6.00	
18 to 24 ins., 1-yr. C.	1.00	8.00	

WEIGELA ROSEA. Pink.

Lining-out	.35	3.00	25.00
6 to 12 ins., C.	.45	4.00	35.00
12 to 18 ins., C.	.55	5.00	45.00
12 to 18 ins., 2-yr., Well Br.	1.50	12.50	
18 to 24 ins., 2-yr., Well Br.	2.00	17.50	
2 to 3 ft., 2-yr., Well Br.	2.50	20.00	
3 to 4 ft., 2-yr., Well Br.	2.75	25.00	

WEIGELA, VARIEGATED. Pink flowers.

6 to 12 ins., 1-yr. C.	.60	5.00	
12 to 18 ins., 1-yr. C.	.70	6.00	
12 to 18 ins., 2-yr. C., Br.	1.25	10.00	

FOREST AND SHADE TREES

ACER DASYCARPUM. Silver Maple.

	Per 10	Per 100	Per 1000
12 to 18 ins., S.	\$ 0.20	\$ 1.50	\$ 12.00
18 to 24 ins., S.	.30	2.00	15.00
2 to 3 ft., S.	.40	3.00	25.00
3 to 4 ft., S.	.50	4.00	35.00
4 to 5 ft., S.	.80	6.00	50.00
5 to 6 ft., S.	1.25	10.00	90.00
6 to 8 ft., S.	3.50	25.00	200.00
5 to 6 ft., Tr.	6.00	50.00	
6 to 8 ft., Tr.	7.50	65.00	
8 to 10 ft., Tr.	10.00	90.00	

ACER NEGUNDO. Box Elder.

6 to 12 ins., S.	.20	1.50	12.00
12 to 18 ins., S.	.25	2.00	15.00
18 to 24 ins., S.	.50	3.50	30.00
2 to 3 ft., 2-yr. S.	.60	4.50	40.00

ACER RUBRUM. Scarlet Maple.

6 to 12 ins., S.	.30	2.00	15.00
12 to 18 ins., S.	.35	2.50	20.00
18 to 24 ins., S.	.45	3.00	25.00

ACER SACCHARUM.

Sugar or Hard Maple.			
4 to 6 ins., S.		1.25	10.00
6 to 12 ins., S.	.30	2.00	15.00
12 to 18 ins., S.	.35	2.50	20.00

AESCULUS OCTANDRA.

Yellow Buckeye.			
6 to 12 ins., S.	.35	2.50	20.00
12 to 18 ins., S.	.45	3.50	30.00
18 to 24 ins., S.	.60	5.00	
2 to 3 ft., S.	.90	7.00	

AILANTHUS GLANDULOSA.

Tree of Heaven.			
12 to 18 ins., S.	.35	2.50	20.00
18 to 24 ins., S.	.45	3.50	25.00
2 to 3 ft., S.	.50	4.00	35.00
3 to 4 ft., S.	.65	6.00	55.00
4 to 5 ft., S.	.75	7.00	65.00

ALBIZZIA JULIBRISSIN.

Mimosa Tree.			
6 to 12 ins., S.	.70	6.00	50.00
12 to 18 ins., S.	1.00	8.00	70.00
18 to 24 ins., S.	1.25	10.00	90.00
2 to 3 ft., S.	2.50	20.00	125.00
3 to 4 ft., S.	5.00	45.00	
4 to 5 ft., Br.	6.00	55.00	
5 to 6 ft., Br.	8.00	70.00	

AMELANCHIER CANADENSIS.

	Per 10	Per 100	Per 1000
Downy Shadblow.			
18 to 24 ins., 2-yr. Tr.	\$ 3.00	\$25.00	
2 to 3 ft., 2-yr. Tr.	4.00	35.00	
3 to 4 ft., 2-yr. Tr.	6.00	50.00	

ASIMINA TRILOBA. Pawpaw.

4 to 6 ins., S.	.40	3.50	
6 to 12 ins., S.	.50	4.50	
12 to 18 ins., S.	.70	6.00	

CASTANEA MOLLISSIMA.

Chinese Chestnut.			
(This is the true blight-resistant Chinese Chestnut from an orchard of selected strain.)			
6 to 12 ins., S.	1.50	12.50	\$100.00
12 to 18 ins., S.	2.50	20.00	175.00
18 to 24 ins., S.	3.50	30.00	275.00
2 to 3 ft., S.	8.00	70.00	

CATALPA SPECIOSA. Northern Catalpa.

6 to 12 ins., S.	.15	.90	7.00
12 to 18 ins., S.	.20	1.25	10.00
18 to 24 ins., S.	.30	2.00	16.00
2 to 3 ft., S.	.40	3.00	22.00
3 to 4 ft., S.	.50	3.50	30.00
4 to 5 ft., S.	1.25	10.00	
3 to 4 ft., Br., Tr.	2.00	15.00	
4 to 5 ft., Br., Tr.	3.00	25.00	
5 to 6 ft., Br., Tr.	5.00	40.00	
6 to 8 ft., Br., Tr.	6.00	50.00	

CELTIS MISSISSIPPIENSIS.

Southern Hackberry.			
6 to 12 ins., S.	.25	2.00	15.00
12 to 18 ins., S.	.30	2.50	20.00
18 to 24 ins., S.	.40	3.50	30.00
2 to 3 ft., S.	.50	4.50	

CERCIS CANADENSIS.

American Redbud.			
4 to 6 ins., S.		1.50	10.00
6 to 12 ins., S.	.25	2.00	15.00
12 to 18 ins., S.	.30	2.50	20.00
18 to 24 ins., S.	.45	3.50	30.00
2 to 3 ft., S.	.60	5.00	45.00
3 to 4 ft., S., Tr.	1.25	10.00	90.00
3 to 4 ft., Tr., Br.	4.00	35.00	
4 to 5 ft., Tr., Br.	6.00	50.00	
5 to 6 ft., Tr., Br.	8.50	75.00	

SURPLUS LIST—FOREST NURSERY CO.

FOREST AND SHADE TREES—Continued

CORNUS FLORIDA.

	Per 10	Per 100	Per 1000
White Dogwood.			
6 to 12 ins., S.	\$ 0.50	\$ 3.50	\$ 25.00
12 to 18 ins., S.	.60	4.50	35.00
18 to 24 ins., S.	.80	7.00	60.00
2 to 3 ft., S.	1.50	12.50	
2 to 3 ft., 2-yr., Well Br.	3.00	25.00	

CORNUS FLORIDA RUBRA.

Pink Dogwood.			
18 to 24 ins., Br.	15.00	125.00	
2 to 3 ft., Br.	17.50	150.00	

DIOSPYROS VIRGINIANA.

American Persimmon.			
6 to 12 ins., S.	.25	1.50	12.50
12 to 18 ins., S.	.35	2.50	20.00
18 to 24 ins., S.	.50	3.50	30.00
2 to 3 ft., S.	.50	4.50	40.00
3 to 4 ft., S.	.65	6.00	55.00
4 to 5 ft., S.	.75	7.00	65.00

FAGUS AMERICANA.

American Beech.			
4 to 6 ins., S.		1.25	10.00
6 to 12 ins., S.	.25	1.50	12.50
12 to 18 ins., S.	.30	2.00	15.00
18 to 24 ins., S.	.40	2.50	20.00

FRAXINUS AMERICANA. White Ash.

FRAXINUS LANCEOLATA. Green Ash.			
6 to 12 ins., S.		1.00	8.00
12 to 18 ins., S.	.25	1.50	12.50
18 to 24 ins., S.	.30	2.50	20.00
2 to 3 ft., S.	.40	3.00	25.00

GINKGO BILOBA.

4 to 6 ins., S.	1.00	8.00	
6 to 9 ins., S.	1.25	10.00	
9 to 12 ins., S.	1.50	12.00	
12 to 18 ins., S.	2.00	15.00	

GLEDITSIA TRIACANTHOS.

Honey Locust.			
6 to 12 ins., S.	.20	1.25	10.00
12 to 18 ins., S.	.25	1.50	12.50
18 to 24 ins., S.	.35	2.50	20.00
2 to 3 ft., S.	.45	4.00	30.00

GLEDITSIA TRIACANTHOS INERMIS.

Thornless Honey Locust.			
6 to 12 ins., S.	.25	1.50	12.00
12 to 18 ins., S.	.30	2.00	15.00

GYMNOCLADUS DIOICUS.

Kentucky Coffee Tree.			
6 to 12 ins., S.	1.50	10.00	90.00
12 to 18 ins., S.	2.00	15.00	125.00
18 to 24 ins., S.	2.50	20.00	175.00
2 to 3 ft., S.	4.00	30.00	250.00
3 to 4 ft., S.	5.00	40.00	

HICORIA LACINIOSA. Shellbark Hickory.

HICORIA OVATA. Shagbark Hickory.			
4 to 6 ins., S.	.60	5.00	40.00
6 to 12 ins., S.	.80	6.00	50.00
12 to 18 ins., S.	1.50	10.00	80.00
3 to 4 ft., S.	12.50	100.00	
4 to 5 ft., S.	15.00	125.00	
5 to 6 ft., S.	20.00	175.00	

JUGLANS CINEREA.

White Walnut (Butternut).			
6 to 12 ins., S.	.60	5.00	45.00
12 to 18 ins., S.	.90	8.00	75.00
18 to 24 ins., S.	1.25	10.00	90.00
2 to 3 ft., S.	2.00	17.50	150.00
3 to 4 ft., S.	3.00	25.00	

JUGLANS NIGRA.

Black Walnut.			
6 to 12 ins., S.	.35	2.50	20.00
12 to 18 ins., S.	.50	3.50	30.00
18 to 24 ins., S.	.60	5.00	40.00
2 to 3 ft., S.	.80	7.00	60.00
3 to 4 ft., S.	3.00	20.00	100.00
4 to 5 ft., S.	4.00	30.00	200.00
5 to 6 ft., S.	5.00	40.00	

JUGLANS REGIA.

English Walnut.			
2 to 3 ft., S.	12.50		
3 to 4 ft., S.	15.00		
4 to 5 ft., S.	22.50		

JUGLANS SIEBOLDIANA.

Japanese Walnut.			
6 to 12 ins., S.	\$ 1.50	\$12.50	
12 to 18 ins., S.	2.00	15.00	
18 to 24 ins., S.	3.00	25.00	
2 to 3 ft., S.	4.00	35.00	
3 to 4 ft., S.	5.00	45.00	

LIRIODENDRON TULIPIFERA.

Tulip Tree.			
4 to 6 ins., S.		1.00	\$ 8.00
6 to 12 ins., S.	.20	1.25	10.00
12 to 18 ins., S.	.25	1.50	12.00
2 to 3 ft., S.	.35	2.50	20.00
3 to 4 ft., S.	.50	4.00	35.00
3 to 4 ft., Tr.	4.00	35.00	
4 to 5 ft., Tr.	6.00	50.00	
5 to 6 ft., Tr.	7.00	60.00	
6 to 8 ft., Tr.	10.00	75.00	

MAGNOLIA ACUMINATA.

Cucumber Tree.			
4 to 5 ft., Tr.	7.50		
4 to 6 ft., Tr.	10.00		
6 to 8 ft., Tr.	12.50		

MALUS CORONARIA.

Wild Sweet Crab.			
12 to 18 ins., S.	.50	4.00	35.00
18 to 24 ins., S.	.70	6.00	50.00
2 to 3 ft., 2-yr., Br., S.	2.00	15.00	
3 to 4 ft., 2-yr., Br., S.	3.00	25.00	
4 to 5 ft., 2-yr., Br., S.	4.00	35.00	

MELIA AZADIRACHTA. Chinaberry.

6 to 12 ins., S.	.60	5.00	
12 to 18 ins., S.	.70	6.00	
18 to 24 ins., S.	1.00	8.00	

MORUS ALBA TATARICA.

Russian Mulberry.			
6 to 12 ins., S.	.20	1.50	10.00
12 to 18 ins., S.	.30	2.00	15.00
18 to 24 ins., S.	.40	2.50	20.00
2 to 3 ft., S.	.50	3.50	30.00
3 to 4 ft., S.	.60	5.00	40.00
4 to 5 ft., 3-yr. S., Well Br.	1.25	10.00	90.00
5 to 6 ft., 3-yr. S., Well Br.	2.00	17.50	150.00

PLATANUS OCCIDENTALIS.

American Plane Tree.			
6 to 12 ins., S.		2.00	15.00
12 to 18 ins., S.		2.50	20.00
5 to 6 ft., Tr.	7.00	60.00	
6 to 8 ft., Tr.	10.00	90.00	
8 to 10 ft., Tr.	14.00	125.00	

POPULUS NIGRA ITALICA.

Lombardy Poplar.			
6 to 12 ins., C.	.20	1.50	12.00
12 to 18 ins., C.	.30	2.00	17.50
18 to 24 ins., C.	.40	3.00	25.00
2 to 3 ft., C.	.60	5.00	40.00
3 to 4 ft., C.	.70	6.00	50.00
4 to 5 ft., C.	1.00	8.00	70.00
5 to 6 ft., C.	1.25	10.00	80.00
6 to 7 ft., C.	1.50	12.50	100.00

PRUNUS NEWPORT.

New Purpleleaf Plum.			
PRUNUS PISSARDI.			
Purpleleaf Plum.			
12 to 18 ins., Junebud	2.50	20.00	
18 to 24 ins., Junebud	3.00	25.00	
2 to 3 ft., Junebud	3.50	30.00	

PRUNUS PERSICA RUBROPLENA.

Double Red-flowering Peach.			
PRUNUS PERSICA ALBOPLENA.			
Double White-flowering Peach.			
12 to 18 ins., Junebud	2.00	15.00	
18 to 24 ins., Junebud	2.50	20.00	
2 to 3 ft., Junebud	3.00	25.00	

PEPPERMINT STICK.

12 to 18 ins., Junebud	2.00	15.00	
18 to 24 ins., Junebud	2.50	20.00	
7/16 to 9/16-in., 3 to 4 ft.	6.00	50.00	
9/16 to 11/16-in., 4 to 5 ft.	7.00	60.00	
11/16-in. and up, 5 to 6 ft.	8.00	70.00	

SURPLUS LIST—FOREST NURSERY CO.

FOREST AND SHADE TREES—Continued

PRUNUS SEROTINA. Wild Cherry.				SALIX DISCOLOR. Pussy Willow.			
	Per 10	Per 100	Per 1000		Per 10	Per 100	Per 1000
12 to 18 ins.	\$0.30	\$ 2.50	\$ 20.00	12 to 18 ins., Tr.	\$0.60	\$ 5.00	....
18 to 24 ins.	.40	3.00	25.00	18 to 24 ins., Tr.	.75	6.50	....
2 to 3 ft.	.60	4.00	35.00	2 to 3 ft., Tr.	1.00	8.00	....
3 to 4 ft.	1.25	10.00	....			
PTELEA TRIFOLIATA. Hop Tree.				SALIX VITELLINA.			
12 to 18 ins.	.70	6.00	....	Golden Weeping Willow.			
18 to 24 ins.	1.00	8.00	....	6 to 12 ins., C.	.20	1.25	\$10.00
2 to 3 ft.	2.00	15.00	....	12 to 18 ins., C.	.30	2.00	15.00
QUERCUS ALBA. White Oak.				18 to 24 ins., C.	.40	3.00	25.00
4 to 6 ins., S.	.50	3.00	20.00				
6 to 12 ins., S.	.60	4.00	30.00	SOPHORA JAPONICA.			
12 to 18 ins., S.	.60	5.00	40.00	4 to 6 ins., S.	.50	4.00	....
QUERCUS PRINUS. Chestnut Oak.				6 to 12 ins., S.	.70	6.00	....
6 to 12 ins., S.	.50	4.00	30.00	12 to 18 ins., S.	.90	8.00	....
12 to 18 ins., S.	.60	5.00	40.00				
18 to 24 ins., S.	.80	7.00	....	TAXODIUM DISTICHUM. Bald Cypress.			
2 to 3 ft., S.	.90	8.00	....	12 to 18 ins.	.90	8.00	....
3 to 4 ft., S.	1.25	10.00	....	18 to 24 ins.	1.25	10.00	....
QUERCUS RUBRA. Southern Red Oak.				2 to 3 ft.	1.50	12.50	....
4 to 6 ins., S.	.50	4.00	30.00				
6 to 12 ins., S.	.60	5.00	40.00	TILIA AMERICANA. American Linden.			
12 to 18 ins., S.	.70	6.00	50.00	6 to 12 ins., S.	.50	4.00	35.00
ROBINIA PSEUDOACACIA.				12 to 18 ins., S.	.60	5.00	45.00
Black Locust.				18 to 24 ins., S.	.70	6.00	55.00
4 to 6 ins., S.	....	.50	4.00	2 to 3 ft., S.	1.00	8.00	75.00
6 to 12 ins., S.	....	.75	6.00				
12 to 18 ins., S.	....	1.25	10.00	ULMUS AMERICANA. American Elm.			
18 to 24 ins., S.	.25	1.50	12.50	12 to 18 ins., S.	....	1.25	10.00
2 to 3 ft., S.	.30	2.50	15.00	18 to 24 ins., S.	....	2.00	18.00
3 to 4 ft., S.	.50	3.50	25.00	2 to 3 ft., S.	....	2.50	....
[10 per cent Discount on above Locust seedlings in 10,000 lots]							
4 to 5 ft., S., Br.	2.00	15.00	125.00	ULMUS PUMILA. Chinese Elm.			
5 to 6 ft., S., Br.	4.00	30.00	....	6 to 12 ins., S.	....	1.00	8.00
6 to 8 ft., S., Br.	6.00	50.00	....	12 to 18 ins., S.	....	1.50	12.50
SALIX BABYLONICA. Weeping Willow.				18 to 24 ins., S.	....	2.00	18.00
6 to 12 ins., 1-yr. C.	.25	1.50	....	2 to 3 ft., S.	.40	3.50	30.00
12 to 18 ins., 1-yr. C.	.35	2.50	....			
18 to 24 ins., 1-yr. C.	.45	3.00	....			
2 to 3 ft.	.50	4.00	....			

VINES and CREEPERS

AMPELOPSIS QUINQUEFOLIA.				LONICERA JAPONICA HALLIANA.			
	Per 10	Per 100	Per 1000		Per 10	Per 100	Per 1000
Virginia Creeper.				Hall's Japanese Honeysuckle.			
L.O. Seedlings	\$0.35	\$ 3.00	\$25.00	2 1/4-in. pots	\$1.00	\$ 9.00	\$ 80.00
2-yr. S., No. 1	1.00	8.00	....	3 -in. pots	1.50	12.50	100.00
2-yr. S., No. 2	.75	6.00	....	Small, Lining-out	....	.90	7.00
ARISTOLOCHIA TOMENTOSA.				Medium, Lining-out	....	1.25	10.00
Dutchman's-pipe Vine.				2-yr. Tr., No. 1	.90	7.00	65.00
1-yr. S., No. 1	.35	2.50	20.00	2-yr. Tr., No. 2	.70	6.00	55.00
1-yr. S., No. 2	.30	2.00	15.00	2-yr. Tr., No. 3	.60	5.00	40.00
BIGNONIA RADICANS.				1-yr. Tr., No. 1	.70	6.00	50.00
Trumpet Creeper.				3-yr. Tr., No. 1 heavy	1.25	10.00	80.00
6 to 12 ins., 1-yr. S.	.30	2.00	15.00	LONICERA SEMPERVIRENS.			
12 to 18 ins., 1-yr. S.	.40	3.00	25.00	Scarlet Trumpet Honeysuckle.			
18 to 24 ins., 2-yr. S.	.80	7.00	60.00	Small, Lining-out	.35	2.50	20.00
CELASTRUS ORBICULATA.				Medium, Lining-out	.40	3.00	25.00
Oriental Bittersweet.				VINCA MINOR. Common Periwinkle.			
CELASTRUS SCANDENS.				Medium, Lining-out (Small)	.15	1.00	7.00
American Bittersweet.				Medium, Lining-out	.20	1.25	10.00
12 to 18 ins., S.	.40	3.00	25.00	[10 per cent discount in 10,000 lots on above Vinca Minor.]			
18 to 24 ins., S.	.50	4.00	30.00	VINCA MINOR. Common Periwinkle.			
12 to 18 ins., Tr., Br.	.70	6.00	50.00	2 1/4-in. Pot Plants	2.00	17.50	150.00
18 to 24 ins., Tr., Br.	1.00	8.00	70.00	VITIS AESTIVALIS. Summer Grape.			
2 to 3 ft., Tr., Br.	1.25	10.00	90.00	VITIS CORDIFOLIA. Winter Grape.			
CLEMATIS VIRGINIANA. Virgin's-bower.				6 to 12 ins., S.	.35	2.50	20.00
L.O. Seedlings, No. 1	1.25	10.00	....	12 to 18 ins., S.	.50	4.00	30.00
L.O. Seedlings, No. 2	1.00	8.00	....	18 to 24 ins., S.	.60	5.00	40.00
2 1/2-in. Pot Plants	2.00	17.50	....	VITIS ROTUNDIFOLIA. Muscadine Grape.			
3 -in. Pot Plants	2.50	22.50	....	6 to 12 ins., 2-yr., No. 3	.35	2.50	20.00
COCCLUS CAROLINUS.				12 to 18 ins., 2-yr. S., No. 2	.40	3.00	25.00
Carolina Moon Vine.				12 to 18 ins., 2-yr., Br.	1.00	8.00	....
1-yr. S., No. 1	.35	2.50	20.00	WISTARIA FRUTESCENS. American Wistaria.			
1-yr. S., No. 2	.30	2.00	15.00	WISTARIA SINENSE. Chinese Wistaria. Blue.			
KUDZU VINE.				1-yr. S., No. 2	.80	6.00	....
No. 1 Seedlings	.60	5.00	....	1-yr. S., No. 1	1.00	8.00	....
No. 2 Seedlings	.50	4.00	....	Grafting Grade, 1/4-in. and up.	....	10.00	....
2 and 3-yr. Crowns	.40	3.50	30.00	18 to 24 ins., 2-yr. S.	2.00	15.00	....
				2 to 3 ft., 2-yr. S.	2.50	20.00	....

SURPLUS LIST—FOREST NURSERY CO.

CONIFEROUS EVERGREENS

BIOTA OCCIDENTALIS PYRAMIDALIS.		
American Pyramid.		
24 to 30 inches.	Each	Per 10
30 to 36 inches.	\$1.75	\$15.00
3 to 4 ft.	2.25	20.00
4 to 5 ft.	2.75	25.00
3 to 4 ft.	3.00	27.50
BIOTA ORIENTALIS AUREA CONSPICUA.		
Golden Pyramidal Arborvitae.		
18 to 24 inches.	1.75	15.00
24 to 30 inches.	2.25	20.00
30 to 36 inches.	2.50	22.50
3 to 4 feet.	2.75	25.00
BIOTA ORIENTALIS AUREA NANA.		
Berckmans Golden Arborvitae.		
15 to 18 inches.	1.75	15.00
18 to 24 inches.	2.00	17.50
24 to 30 inches.	2.25	20.00
BIOTA ORIENTALIS BAKERI, Baker's Arborvitae.		
18 to 24 inches.	1.50	12.50
24 to 30 inches.	1.75	15.00
30 to 36 inches.	2.00	17.50
BIOTA ORIENTALIS EXCELSA, Biota Excelsa.		
18 to 24 inches.	1.50	12.50
24 to 30 inches.	1.75	15.00
30 to 36 inches.	2.00	17.50
JUNIPERUS CHINENSIS PFITZERIANA.		
Pfitzer Juniper.		
18 to 24 inches.	2.50	22.50
24 to 30 inches.	2.75	25.00
30 to 36 inches.	3.00	27.50
(Sold only in connection with other evergreens.)		
JUNIPERUS COMMUNIS DEPRESSA PLUMOSA.		
Andorra Juniper.		
18 to 24 inches.	1.75	15.00
24 to 30 inches.	2.00	17.50
30 to 36 inches.	2.25	20.00
JUNIPERUS COMMUNIS ASHFORDI.		
Ashford Juniper.		
30 to 36 inches.	2.00	17.50
3 to 4 feet.	2.25	20.00
4 to 5 feet.	2.50	22.50
JUNIPERUS COMMUNIS COLUMNARIS.		
Columnar English Juniper.		
30 to 36 inches.	2.00	17.50
3 to 4 feet.	2.25	20.00
JUNIPERUS COMMUNIS HIBERNICA.		
Irish Juniper.		
18 to 24 inches.	1.50	12.50
24 to 30 inches.	1.75	15.00
30 to 36 inches.	2.00	17.50
3 to 4 feet.	2.25	20.00
4 to 5 feet.	2.50	22.50
JUNIPERUS COMMUNIS HIBERNICA FASTIGIATA.		
Columnar Irish Juniper.		
24 to 30 inches.	1.75	15.00
30 to 36 inches.	2.25	20.00
3 to 4 feet.	2.50	22.50
4 to 5 feet.	2.75	25.00
JUNIPERUS EXCELSA STRICTA.		
Spiny Greek Juniper.		
18 to 24 inches.	2.00	17.50
24 to 30 inches.	2.25	20.00
30 to 36 inches.	2.50	22.50
JUNIPERUS GLAUCA HETZL.		
A Blue spreader resembling Juniperus Pfitzeriana.		
24 to 30 inches.	2.75	25.00
30 to 36 inches.	3.00	27.50
PICEA CANADENSIS, White Spruce.		
PICEA CANADENSIS ALBERTIANA.		
Black Hills Spruce.		
18 to 24 inches.	2.00	17.50
24 to 30 inches.	2.25	20.00
PICEA EXCELSA, Norway Spruce.		
18 to 24 inches.	2.00	17.50
24 to 30 inches.	2.25	20.00
RETINOSPORA PLUMOSA AUREA.		
Golden Plume Retinospora.		
18 to 24 inches.	1.50	12.50
24 to 30 inches.	1.75	15.00
30 to 36 inches.	2.00	17.50

CONIFEROUS
EVERGREENS—Continued

TSUGA CANADENSIS, Canadian Hemlock.		
18 to 24 inches.	Each	Per 10
24 to 30 inches.	\$2.25	\$20.00
30 to 36 inches.	2.75	25.00
3 to 4 feet.	3.25	30.00
3 to 4 feet.	3.75	35.00

Ask for Special Quotations on Evergreens in Carload or Truckload Lots.

BROAD-LEAVED
EVERGREENS

ABELIA GRANDIFLORA.		
18 to 24 inches, Bare Root.	Each	Per 10
2 to 3 feet, Bare Root.	\$0.40	\$ 3.00
2 to 3 feet, Bare Root.	.60	5.00
EUONYMUS PATENS.		
12 to 18 inches.	1.40	12.50
18 to 24 inches.	1.75	15.00
NANDINA DOMESTICA.		
12 to 18 inches.	1.25	10.00
18 to 24 inches.	1.75	15.00
24 to 30 inches.	2.00	17.50

LINING-OUT EVERGREENS

ABELIA GRANDIFLORA.			
Glossy Abelia.			
4 to 6 ins., field-grown, C.	Per 10	Per 100	Per 1000
6 to 9 ins., field-grown, C.	\$1.00	\$ 9.00	\$ 80.00
9 to 12 ins., field-grown, C.	1.25	10.00	90.00
12 to 15 ins., field-grown, C.	1.50	12.50	100.00
2 1/4-in. Pots, Spring Delivery.	1.50	12.50	100.00
ARBORVITAE ORIENTALIS.			
Chinese Arborvitae (Biota).			
3 to 6 ins., S.	.50	3.00	25.00
6 to 9 ins., S.	.60	4.00	35.00
9 to 12 ins., S.	.75	5.00	45.00
EUONYMUS COLORATUS.			
Creeping Lavender foliage in Fall and Winter.			
2 1/4-in. pots, 4 to 8 inches.	1.25	10.00	
2 -in. pots, 8 to 12 inches.	1.50	12.50	
EUONYMUS PATENS.			
Siebold.			
2 1/4-in. pots, 4 to 6 inches.	1.25	10.00	
2 1/4-in. pots, 6 to 9 inches.	1.50	12.00	
3 -in. pots, 8 to 12 inches.	1.75	15.00	
ILEX OPACA, American Holly.			
2 1/4-in. Pot Plants.			
3.00	25.00		
JUNIPERUS VIRGINIANA, Red Cedar.			
Grafting Understock, field-grown.			
2 1/16 to 3 1/16-in. Cal., Tr.	.80	7.00	60.00
3 1/16 to 1/4-in. Cal., Tr.	1.00	8.00	70.00
1/4-in. and up Cal., Tr.	1.25	10.00	90.00
12 to 18 ins., Tr.	1.50	12.50	100.00
TSUGA CANADENSIS.			
Canadian Hemlock.			
4 to 6 ins., Tr., B. R.	1.50	12.50	100.00
6 to 9 ins., Tr., B. R.	2.00	15.00	125.00
9 to 12 ins., Tr., B. R.	2.50	20.00	175.00
12 to 15 ins., Tr., B. R.	3.00	25.00	225.00

MISCELLANEOUS

CHERRIES			
Varieties: Montmorency, Early Richmond.			
5/16 to 7/16-in. Cal., 2-yr., Well Br.	\$3.50	\$30.00	
7/16 to 9/16-in. Cal., 2-yr., Well Br.	4.50	40.00	
9/16 to 1 1/16-in. Cal., 2-yr., Well Br.	5.00	45.00	
1 1/16-in. to 1-in. Cal., 2-yr., Well Br.	5.50	50.00	
1-in. and up Cal., 2-yr., Well Br.	6.50	60.00	
VICTORIA RHUBARB.			
1/2 to 3/4-inch.	.70	6.00	\$50.00
3/4 to 1-inch.	.80	7.00	60.00
1-inch and up.	1.00	8.00	70.00
ASPARAGUS:			
Paradise and Martha Washington.			
2-yr., No. 1.	.40	1.75	12.50
2-yr., No. 2.	.30	1.25	10.00

Turn the page for Hardwood Cuttings.

SURPLUS LIST—FOREST NURSERY CO.

HARDWOOD CUTTINGS

We offer the following list of Hardwood Cuttings. Ask for quotations on large quantities of Privet, Amur River North, California, Amur River South and Ibolium. All cuttings are 7 inches, unless requested to be longer lengths at slightly increased prices.

ACANTHOPANAX PENTAPHYLLUM.

Five-leaved Aralia.	Per 1000
No. 1	\$5.00
No. 2	4.00

ALTHAEA ARDENS, Double Violet.

No. 1	3.00
No. 2	2.50

CYDONIA JAPONICA RUBRA.

No. 1	5.00
No. 2	4.00

HYDRANGEA PEEGEE (True Type).

No. 1	5.00
No. 2	4.00

LIGUSTRUM AMURENSE.

Amur River North Privet.	
No. 1	2.50
No. 2	2.00

LIGUSTRUM OVALIFOLIUM.

California Privet.	
No. 1	2.50
No. 2	2.00

LIGUSTRUM IBOLIUM. Ibolium Privet.

No. 1	2.50
No. 2	2.00

LIGUSTRUM SINENSE.

Amur River South Privet.	Per 1000
No. 1	\$2.50
No. 2	2.00

POPULUS NIGRA ITALICA. Lombardy Poplar.

No. 1	3.00
No. 2	2.50

SPIRAEA ARGUTA. Garland Spiraea.

No. 1	5.00
No. 2	4.00

SPIRAEA PRUNIFOLIA. Bridal Wreath.

No. 1	5.00
No. 2	4.00

SPIRAEA VANHOUTTEI.

No. 1	3.00
No. 2	2.50

WEIGELA ROSEA, Deep Pink.

No. 1	4.00
No. 2	3.50

WEIGELA AMABILIS, Light Pink.

No. 1	4.00
No. 2	3.50

WRITE, WIRE OR PHONE FOR SPECIAL QUOTATIONS ON QUANTITY LOTS.

John Boyd, our Convention Representative, will be in attendance at the following conventions:

Western Association of Nurserymen—Hotel Muehlebach—Kansas City, January 11 and 12.

Illinois State Nurserymen's Association—Hotel La Salle, Chicago, January 17 to 19.

Ohio Nurserymen's Association—Neil House, Columbus, January 26 and 27.

See preceding pages for Hardy Deciduous Flowering
Shrubs, Forest and Shade Trees, Vines and Creepers
and Evergreens.

NURSERY TAX CASE.

The unusual case of Tsukasa Kiyono and his wife, Tomoe, Japanese operators of Kiyono Nurseries, Mobile, Ala., before World War II, vs. the United States government over a matter of taxes apparently is ending to everyone's satisfaction.

While the United States Tax Court, arbiter in the dispute, ruled the Kiyonos must pay certain tax items regarding which erroneous returns had been filed, it also decreed that the government must refund what is due on the substantial sum realized from the sale of Kiyono holdings under the alien property act to satisfy claims of the internal revenue commissioner.

Lawyers for the couple and the government are at present computing who owes what in the complicated tax case.

According to the court's ruling the Kiyonos are cleared of all charges of fraud. The court added: "Many of his (Tsukasa's) tax difficulties are traceable to his unfamiliarity with our

business customs and income tax laws." That the Kiyonos did not intend any fraud when they made out their income tax returns was borne out when they failed to take advantage of numerous deductions which they were allowed, the court said.

What caused the mixup appeared to be Tsukasa Kiyono's system of bookkeeping which government auditors found "confusing." But, Kiyono was more interested in the production and distribution of plants than in keeping complicated records, the court said.

In covering the Kiyono tax case, two Alabama newspapers, the Mobile Register and the Birmingham News-Age-Herald, told the story of Tsukasa Kiyono and his wife, Tomoe. The articles went into detail on how they came from their native Japan nearly thirty years ago and after an uphill struggle achieved a good measure of success in the growing of camellias and azaleas near Mobile. It was in trying to keep track of their flourishing business during the years

before World War II that the Kiyonos found themselves in tax difficulties with the government.

While on a buying trip to the Orient, the Kiyonos became stranded in Japan at the outbreak of World War II. In 1943 their property was seized by the government and their securities were sold to satisfy tax claims.

The Kiyonos came back to America shortly after the end of the war and are attempting to rebuild what has been destroyed. At present Tsukasa Kiyono is manager of the Cottage Hill Nursery, Mobile.

FORMAL opening of Border Nursery & Floral Co., Route 1, Waxahachie, Tex., was held November 12.

THE marriage of Kathryn Ann Baker, daughter of Mr. and Mrs. Edward Lawrence Baker, Baker Bros. Nursery, Fort Worth, Tex., to Sam Woody Acola took place December 28 at the First Methodist church, Fort Worth.

Plant Notes Here and There

By C. W. Wood

An inquiry some time ago from a Virginia reader about *Primula palinuri* found me wholly unprepared to answer, because I had never even heard of the plant. And when I went to the books for enlightenment, it was found that Bailey does not even mention it in "Hortus" and Correvon merely mentions it as coming from Italy and belonging to the *Auricula* section of the genus. I had to tell the correspondent that I could not help him. Since then correspondence with an English *primula* specialist has brought out a little information on the plant, but I now find that the correspondent's address has been misplaced; so these notes are given here with the hope that this information reaches his attention.

Among other things, he states that *P. palinuri* is a subshrubby plant, growing from the hot slopes of the Apennines, according to the floras, and my correspondent states that it stands all heat and dry weather his garden is subjected to (but that does not mean an eastern American summer). According to Correvon, it blooms in May, while the English correspondent reports an early March display there, both agreeing that the color is yellow and the height of the scape is about a foot. The latter says that, although the flowers are rather small, they are deliciously scented, which, together with its early-blooming habit, makes it a worthy garden plant. As plants from the lower Apennines are seldom hardy in this garden here in northern Michigan, I should not expect this primrose to be an exception, though it might be entirely hardy in Virginia.

Globularia Bellidifolia.

Most globe daisies have something to recommend them to a gardener, though it is not always easy to induce them to bloom profusely every year. Why they are called globe daisies is not apparent, for, although the flower heads are more or less globular, they are far from the popular conception of a daisy. One is not apt to run into difficulties in their culture, but some, especially the mountain kinds, do not always bloom so much as one would like. Happily, though, that is not true of *Globularia bellidifolia*, for it covers itself with lavender-blue globes as surely as spring comes around.

It makes a low carpet of tiny, glossy, dark green, evergreen leaves,

giving one a splendid year-around effect wherever an inch-high plant of the type can be used, provided the spot is sunny and well drained. A glance at the plant will tell the experienced gardener that it is ready to fill a number of roles, including carpeting bulb beds, clothing sunny slopes in the rock garden and serving as a wall ornament, to mention only three. Its great value to the landscape gardener is its lovely evergreen carpet, though one has to admit that a foot-wide plant that is studded all over with little lavender-blue heads on 2-inch stems is to be remembered. Although an inhabitant of Italy, it was fully winter hardy here, even under field culture where it had no protection whatever except what nature usually supplied in the form of snow. This plant is easy to propagate

from seeds, divisions and cuttings, the cuttings rooting practically 100 per cent in early spring.

Eriogonum Niveum.

An Iowa reader wants to add one *eriogonum* to his list this year and asks for a note on a good one. The one I have selected heads this note, not placed there because it is the best, though one would have to do quite a little hunting to find a better candidate, but rather because it can be found without too much hunting.

Eriogonum niveum is a bushy little shrub that grows to a height of eighteen inches, with tiny leaves covered with silvery down and large heads of pink flowers during mid-summer. Read the preceding sentence over again to obtain the full import of the plant's beauty and potential

PENNSYLVANIA SEEDLINGS and TRANSPLANTS

grown at High Altitude, in the heart of the
ORIGINAL PENNSYLVANIA PINE FORESTS

	Per 100	Per 1000
American Red Pine, 2-0, 2 to 4 ins.....	\$4.00	\$30.00
American Red Pine, extra-good, 3-0, 4 to 8 ins.....	5.00	40.00
Scotch Pine, 2-0, 2 to 4 ins.....	2.00	15.00
Scotch Pine, very good, 2-yr., 4 to 6 ins.....	3.00	25.00
Scotch Pine, extra-good, 3-yr., 6 to 8 ins.....	3.50	30.00
Scotch Pine, extra-good, 3-yr., 8 to 12 ins.....	4.00	35.00
Larch, 2-yr., 5 to 8 ins.....	2.50	20.00
Pitch Pine (Adirondack), 2-yr., 5 to 8 ins.....	2.00	15.00
Mugho Pine, 2-yr., spreading.....	2.50	20.00
Mugho Pine, 3-yr., spreading.....	3.50	30.00

All stock offered subject to prior sale. Five per cent discount on orders of 25,000 or more seedlings, one or more species.

EXCELLENT ROOT SYSTEMS STURDY PLANTS

500 at 1000 rate. No charge for packing or boxing when cash accompanies order; otherwise, one-half cash with order, balance C.O.D.

SCHROTH'S NURSERY

Nursery: Pine Flats, Pa.

INDIANA, PA.

Giant Victoria RHUBARB



A field of our Rhubarb photographed Oct. 1, 1949.

Growing of Rhubarb

The growing of Rhubarb plants for the wholesale trade has long been a specialty with us. Our enormous annual production is distributed over many states, and large numbers of buyers depend upon us every year for their supply.

We grow our Rhubarb on rich river-bottom soil so it makes a good, strong, husky growth. Because the soil is rather sandy, the roots come out bright and clean. When you buy Willis Rhubarb you know that you are getting the best.

Place your order today for immediate or future delivery.

Prices

GIANT VICTORIA RHUBARB

	Per 100	Per 1000	Per 5000
1½ to 2 -inch, whole roots.....	\$7.50	\$70.00	\$325.00
1 to 1½-inch, whole roots.....	5.00	45.00	200.00
¾ to 1 -inch, whole roots.....	4.00	35.00	150.00

Sizes given refer to the diameter of the plants at the crown.

THE WILLIS NURSERY CO.

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OTTAWA, KANSAS

usefulness. Furthermore, if the old saying which tells us that "beauty is as beauty does" is true, *E. niveum* is almost perfect, for I recall few other plants of its season that can be so lovely under the adverse conditions which seem to make our present plant appear at its best. Once you establish it in a lean, well drained soil in full sun, it should make a lifetime ornament of far more than ordinary merit. Old specimens could probably be divided, though I never tried it; they may be grown from seeds, when available; layering is the best plan, according to my experience. Cuttings were never successful here.

A Variegated Bugle.

Although I am not especially fond of any bugle, I saw a variegated one in an amateur's garden last summer that recalled an experience with it several years ago and prompted this brief note. The plant was in my garden during the time that I thought I did not like variegated foliage; so it received little attention. If I had it now, I should probably like it; surely, most gardeners would admire it.

It is a typical bugle, spreading its rosettes over everything in its path, yet, with some restraint from the hands of the gardener, its pretty foliage, variegated with cream and pink on green, makes a bit of attractive color from spring until winter. I notice that it is in some lists as *Ajuga variegata foliosa*, though I find no authority for that name.

Hypericum Moserianum Tricolor.

As I was thinking about the variegated subject of the preceding paragraph, there came to mind another variegated plant that I should like to grow if it were sufficiently hardy for this severe climate. Farther south where the type, *Hypericum moserianum*, is hardy in the open, the variety tricolor, with its leaves variegated white and green, edged with red, would make one of the gayest spots in the garden. It would be expecting too much, I suppose, to ask for the spectacularly large flowers of *moserianum* on its gay offspring; one would be disappointed if he did, for the flowers are usually less than an inch in diameter, instead of the two inches or more in the type. Grow it from cuttings of green wood under glass, preferably in summer, I believe.

Starflowers.

A correspondent, specializing in wild flowers, asks for a brief resume of the genus *trientalis*, of which he knows only the eastern American *T. americana*. In reply, it might be pointed out that [Continued on page 71.]

TO completely POWER

YOUR NURSERY

It's just as wasteful to over-power a job as to under-power it. Here's a low-cost way to have the *right size* tractor for the work to be done.

Every nursery has jobs the Allis-Chalmers Model G Tractor will do better or at lower cost than any other kind of power. In some nurseries, the Model G solves every power need. With it you can have a line of quick-hitch, front-mounted implements that may well equip you to power a wider range of nursery care tasks than ever.

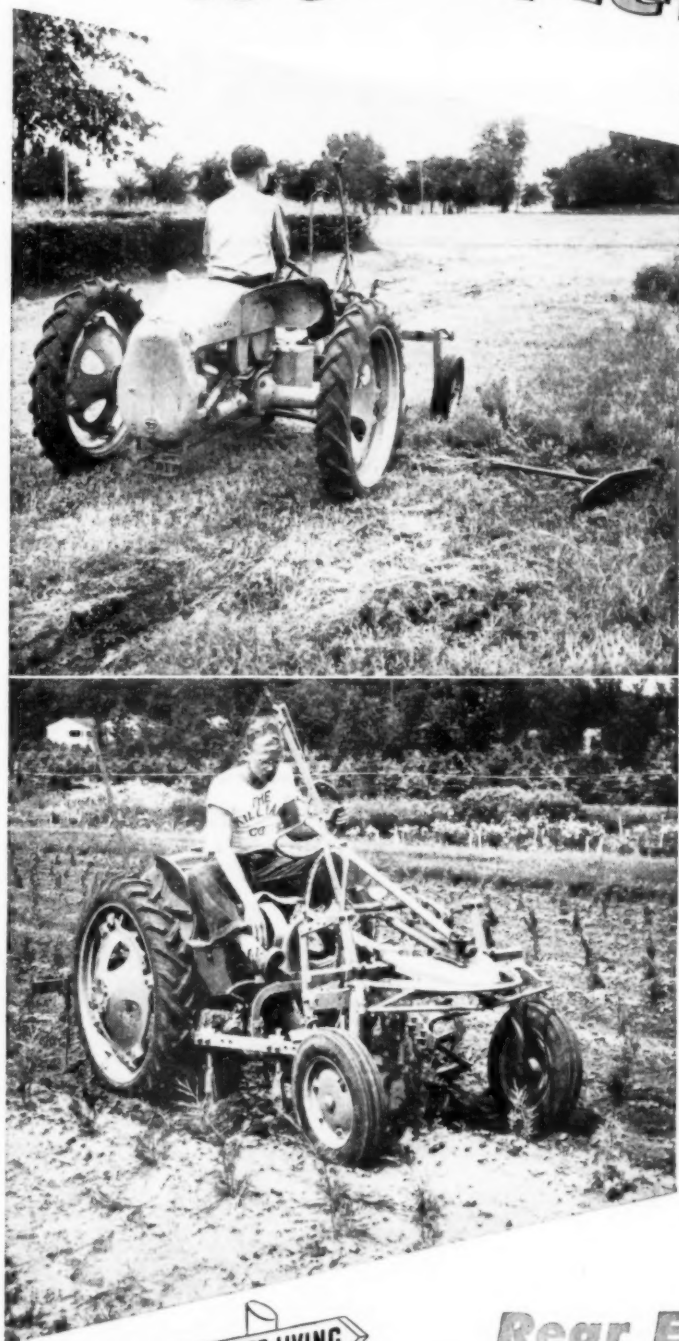
If you now own a larger tractor, why tie it up with light jobs the Model G can do on quarts of fuel instead of gallons? During busy seasons, this extra power plant can prove "worth its weight in gold."

For Any Size or Type of Nursery

Actually, the rear-engine Model G is now used for all kinds of farm work — on all kinds of crops — on all sizes of farms.

In the nursery, this versatility extends from mowing with the field-weight 5-foot mower to plowing with a front-mounted moldboard or disc plow — plus a score of power chores between. Everyday usefulness more than justifies investment in the Model G.

For *all* jobs on some farms... for some jobs on *all* farms... to *completely* power *your* nursery, own the



Rear Engine G Tractor

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TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

CHOICE LINERS FOR SPRING, 1950

EVERGREEN LINING-OUT STOCK

	100 rate each	1000 rate each		100 rate each	1000 rate each
10,000 Abies balsamea, 2-yr. S.....	\$0.06	\$0.05	700 Taxus baccata fastigiata, 3-yr. T, 6 to 16 ins.....	\$0.30	\$0.25
1000 Abies lasiocarpa, T, 3 to 4 ins.....	.06	.18	200 Taxus baccata fastigiata, TT, 9 to 12 ins..	.40	..
500 Azalea amoena, 1-yr. T, 6 to 9 ins.....	.20	.18	200 Taxus baccata fastigiata, TT, 12 to 15 ins.....	.50	..
500 Azalea hinodogiri, 1-yr. T, 6 to 9 ins.....	.20	..	200 Taxus baccata fastigiata, 15 to 18 ins.....	.75	..
800 Cedrus atlantica glauca, pot grafts.....	.60	..	1000 Taxus baccata repandens, 2-yr. T, grafts	.60	..
500 Chamaecyparis obtusa gracilis, pot grafts	.35	..	500 Taxus baccata repandens, 3-yr. T, grafts, 8 to 12 ins.....	.60	..
1000 Chamaecyparis obtusa gracilis, 2-yr. grafts.....	.60	.50	150 Taxus canadensis stricta, 2-yr. T.....	.30	..
250 Chamaecyparis plumosa, 4-yr. T, 12 to 16 ins.....	.30	..	50 Taxus canadensis stricta, TT, 10 to 12 ins..	.50	..
850 Chamaecyparis plumosa, TT, 12 to 15 ins..	.35	.30	40 Taxus canadensis stricta, TT, 12 to 15 ins..	.60	..
200 Chamaecyparis plumosa, TT, 15 to 18 ins..	.40	.35	1500 Taxus capitata (new hedgerow type), 2-yr. T, 8 to 12 ins.....	.35	.30
500 Chamaecyparis plumosa aurea, 2-yr. T.....	.25	.20	6000 Taxus capitata columnaris (Parson's pyramidalis), 2-yr. T, 6 to 10 ins.....	.30	.25
500 Chamaecyparis plumosa aurea, TT, 10 to 12 ins.....	.40	.35	5000 Taxus cuspidata (upright seedlings), 1-yr. S.....	.06	.05
1000 Euonymus radicans, 2-yr. T, 6 to 9 ins..	.30	.25	5000 Taxus cuspidata (upright seedlings), 2-yr. S.....	.12	.09½
3000 Euonymus radicans carrierei, 2-yr. T, 9 to 12 ins.....	.30	.25	2000 Taxus cuspidata, 3-yr. T, 6 to 10 ins..	.30	.25
2000 Euonymus radicans coloratus, T, 10 to 12 ins.....	.25	.20	3000 Taxus cuspidata, 3-yr. T, 8 to 10 ins..	.35	.30
2000 Euonymus radicans coloratus, TT, 10 to 12 ins.....	.35	.30	2000 Taxus cuspidata, 4-yr. TT, 8 to 12 ins..	.45	.40
1000 Euonymus radicans erectus, 2½-in. pots.	.15	.15	300 Taxus cuspidata (No. 2, semilupright), 3-yr. T, 8 to 15 ins.....	.30	..
500 Euonymus radicans, variegated, T, 6 to 10 ins.....	.20	..	400 Taxus cuspidata (No. 3, semilupright), 3-yr. T, 6 to 10 ins.....	.30	..
5000 Euonymus radicans vegetus, R.C. from flats.....	.10	.09	3000 Taxus cuspidata andersoni, 2-yr. T, 6 to 10 ins.....	.30	.25
5000 Euonymus radicans vegetus, TT, 6 to 10 ins.....	.35	.30	5000 Taxus cuspidata browni, 2-yr. T, 8 to 12 ins.....	.30	.25
3000 Euonymus radicans vegetus, 2-yr. T, 9 to 12 ins.....	.30	.25	4000 Taxus cuspidata browni, TT, 8 to 10 ins..	.35	.30
1000 Hex crenata, 1-yr. T.....	.18	.22½	1000 Taxus cuspidata buffoni, 2-yr. T.....	.30	.25
1000 Hex crenata convexa, 2-yr. T.....	.25	.22½	1000 Taxus cuspidata buffoni, 4-yr. TT.....	.45	.40
1000 Juniperus chinensis sargentii, 2-yr. T.....	.35	.30	1000 Taxus cusp. capitata (cuttings), 2-yr. T, 6 to 10 ins.....	.30	.25
500 Juniperus depressa plumosa, T, 6 to 8 ins..	.35	.30	600 Taxus cuspidata columnaris, 3-yr. T, 8 to 16 ins.....	.35	.30
1300 Juniperus excelsa stricta, 2½-in. pots..	.17½	..	200 Taxus cuspidata columnaris, TT, 9 to 12 ins.....	.45	..
1000 Juniperus glauca hetzi, 2½-in. pots.....	.20	..	400 Taxus cuspidata columnaris, TT, 12 to 15 ins.....	.60	.50
1000 Juniperus glauca hetzi, T, 6 to 8 ins.....	.40	.35	400 Taxus cuspidata columnaris, TT, 15 to 18 ins.....	.75	.70
1000 Juniperus horizontalis douglasii, 2½-in. pots.....	.17½	..	1000 Taxus cuspidata compacta, 2-yr. T, 6 to 10 ins.....	.30	.25
1500 Juniperus pfitzeriana, 2½-in. pots, 4 to 6 ins.....	.22½	..	1000 Taxus cuspidata nana, 2-yr. T, 6 to 8 ins..	.25	.20
1000 Juniperus pfitzeriana, 2½-in. pots, 6 to 8 ins.....	.30	..	2000 Taxus cuspidata nana, 3-yr. T.....	.30	.25
2000 Juniperus suecica, 2-yr. T, 6 to 8 ins..	.20	.18	2000 Taxus cuspidata nana, TT, 6 to 10 ins..	.45	.40
10,000 Juniperus virginiana, 2-yr. S, 7 to 14 ins.	.06	.05	1000 Taxus cuspidata nana, 5-yr. TT, 8 to 10 ins.....	.65	.60
2700 Juniperus virginiana, 3-yr. T, 8 to 12 ins.	.12	.12	3000 Taxus cuspidata nana, 6-yr. TT, 10 to 12 ins.....	.85	.75
6000 Juniperus virginiana (for grafting), 3-yr. T, 6 to 8 ins.....	.10	.10	75 Taxus cuspidata nana, TT, 12 to 15 ins..	.85	..
5000 Juniperus virginiana, 3-yr. T, 4 to 6 ins..	.08	.08	5000 Taxus cuspidata nana erecta, 2-yr. T.....	.30	.25
2000 Juniperus virginiana, named varieties, pot grafts.....	.45	.40	1000 Taxus cuspidata thayerae, 2-yr. T.....	.30	.25
2000 Mahonia aquifolium, T, 6 to 10 ins.....	.25	.22	50 Taxus cuspidata thayerae, TT, 12 to 15 ins.....	.60	..
1000 Mahonia aquifolium, 1-yr. S.....	.06	.05	4000 Taxus intermedia (spreading), 2-yr. T, 8 to 10 ins.....	.30	.25
8000 Picea albertiana, 2-yr. S, 1½ to 3-in....	.07	.06	600 Taxus intermedia (spreading), 3-yr. T, 8 to 10 ins.....	.35	.30
10,000 Picea canadensis densata, 3-yr. S, 2 to 5 ins.....	.07	.06	1000 Taxus intermedia (spreading), 5-yr. TT, 8 to 10 ins.....	.50	.45
30,000 Picea excelsa, 2-yr. S, 3 to 6 ins.....	.04	.03½	500 Taxus intermedia (spreading), 2-yr. TT, 10 to 12 ins.....	.75	.70
4000 Picea excelsa, 3-yr. S, 3 to 8 ins.....	.06	.05	2500 Taxus intermedia hunnewelliana, 2-yr. T, 6 to 10 ins.....	.30	.25
10,000 Picea excelsa, 3-yr. T, 3 to 6 ins.....	.10	.09	2000 Taxus media (upright strain), 2-yr. T, 9 to 12 ins.....	.30	.25
5000 Picea excelsa, 1-yr. S.....	.03	.02½	1000 Taxus media (upright), 3-yr. T, 12 to 15 ins.....	.30	.25
25,000 Picea pungens, 2-yr. S, 2 to 5 ins.....	.07	.06	4000 Taxus media Halloran Strain, 2-yr. T, 6 to 8 ins.....	.25	.22½
5000 Picea pungens, 3-yr. T, 1½ to 4 ins.....	.12	.10	2000 Taxus media Halloran Strain, 3-yr. T, 9 to 12 ins.....	.35	.30
1500 Picea pungens, 3-yr. S, 3 to 6 ins.....	.07	.06	3000 Taxus media Halloran Strain, TT, 9 to 12 ins.....	.60	.50
1000 Picea pungens moerheimi, pot grafts....	1.00	..	3000 Taxus media hatfieldi, 2-yr. T, 8 to 12 ins.....	.30	.25
1000 Pieris japonica, 3-yr. T.....	.35	.30	2000 Taxus media hatfieldi, 3-yr. T, 8 to 12 ins.....	.35	.30
4000 Pinus banksiana, 2-yr. S, 8 to 14 ins.....	.03	.02½	3000 Taxus media hatfieldi, 4-yr. TT, 10 to 12 ins.....	.40	.35
2000 Pinus densiflora, 3-yr. S, 9 to 18 ins.....	.05	.04	25 Taxus media hatfieldi, 6-yr. TT, 12 to 15 ins.....	.60	..
6000 Pinus densiflora, 3-yr. T, 4 to 9 ins.....	.10	.09	300 Taxus media hatfieldi, 6-yr. TT, 15 to 18 ins.....	.85	.75
2000 Pinus nigra austriaca, 2-yr. S, 4 to 6 ins..	.06	.05	10,000 Taxus media hicksi, 2-yr. T, 10 to 12 ins.	.25	.20
20,000 Pinus montana mughus, 2-yr. S, 2 to 4 ins.....	.05	.04	2000 Taxus media hicksi, 3-yr. T, 12 to 15 ins.	.30	.25
8000 Pinus montana mughus, 3-yr. S, 3 to 5 ins.....	.08	.07	1000 Taxus media hicksi, 4-yr. TT, 10 to 12 ins.....	.40	.35
8000 Pinus montana mughus, 3-yr. T, 3 to 6 ins.....	.10	.09	500 Taxus media hicksi, 6-yr. TT, 15 to 18 ins.....	.80	.75
4000 Pinus resinosa, 3-yr. T, 2 to 5 ins.....	.09	.08			
8000 Pinus resinosa, 3-yr. S, 5 to 10 ins.....	.08	.07			
7000 Pinus rigida, 2-yr. S, 7 to 12 ins.....	.03	.02			
2000 Pinus rigida, 3-yr. S, 8 to 16 ins.....	.04	.03			
25,000 Pinus strobus, 3-yr. T, 3 to 5 ins.....	.08	.07			
5000 Pinus sylvestris, 2-yr. S, 3 to 7 ins.....	.05	.04			
4000 Pinus sylvestris, 3-yr. T, 4 to 9 ins.....	.09	.07			
4500 Pinus sylvestris, 4-yr. T, 9 to 18 ins.....	.12	.10			
5000 Pinus thunbergii, 1-yr. S.....	.03	.02½			
250 Pinus thunbergii, 3-yr. T.....	.15	..			
1000 Pseudotsuga douglasii, 3-yr. S, 4 to 6 ins..	.07	.06			
5000 Pseudotsuga douglasii, 3-yr. T, 2 to 6 ins..	.10	.09			
1000 Rhododendron Hybrids (50 per cent red shades), pot grafts....	.75	..			
500 Rhododendron, named varieties (red), pot grafts.....	.90	..			

EVERGREEN LINING-OUT STOCK—Continued

	100 rate each	1000 rate each		100 rate each	1000 rate each
1000 <i>Taxus media</i> Moon's Columnaris, 2-yr. T, 8 to 10 ins.....	\$0.30	\$0.25	1000 <i>Thuja occ. umbraculifera</i> , 2-yr. T, 8 to 8 ins.....	\$0.20	..
1000 <i>Taxus media</i> Moon's Columnaris, 3-yr. T, 9 to 12 ins.....	.35	.30	1000 <i>Thuja occ. umbraculifera</i> , TT, 8 to 10 ins.....	.30	\$0.25
2000 <i>Taxus media stoveteni</i> (new), (Pine pyramidal media type), 2-yr. T.....	.40	.35	350 <i>Thuja occ. vernaensis</i> , 2-yr. T, 8 to 10 ins.....	.30	.25
500 <i>Taxus Vermeulen</i> , 2-yr. T, 6 to 10 ins.....	.30	..	1000 <i>Thuja occ. wareana</i> , 2-yr. T, 6 to 8 ins.....	.30	.25
5000 <i>Thuja occidentalis</i> , 2-yr. S.....	.04	.03½	600 <i>Thuja occ. wareana</i> , TT, 8 to 12 ins.....	.35	.30
2500 <i>Thuja occidentalis</i> , 3-yr. S, 12 to 18 ins.....	.06	.05	500 <i>Thuja occ. wareana</i> , 2-yr. (transplanted grafts).....	.60	..
2000 <i>Thuja occ. compacta</i> , 2-yr. T, 6 to 8 ins.....	.30	.25	1500 <i>Thuja occ. woodwardi</i> , 2-yr. T, 6 to 10 ins.....	.25	.20
300 <i>Thuja occ. compacta</i> , 3-yr. T, 10 to 15 ins.....	.35	.30	3000 <i>Thuja orientalis</i> , 1-yr. S.....	.03	.02½
800 <i>Thuja occ. compacta</i> , TT, 8 to 10 ins.....	.40	.35	3000 <i>Thuja orientalis</i> , 2-yr. S, 6 to 10 ins.....	.04	.03½
1500 <i>Thuja occ. Columbia</i> (silver-tipped), T, 8 to 10 ins.....	.25	.20	2000 <i>Thuja orientalis</i> , 3-yr. S, 12 to 18 ins.....	.06	.05
1000 <i>Thuja occ. Columbia</i> (silver-tipped), TT, 8 to 12 ins.....	.30	.25	500 <i>Thuja orientalis</i> , 4-yr. T, 12 to 20 ins.....	.08	.07
200 <i>Thuja occ. douglasii</i> (spiralis), 2-yr. T, 6 to 10 ins.....	.30	.25	1000 <i>Thuja orientalis aurea nana</i> , 2-yr. tr. grafts.....	.60	.50
240 <i>Thuja occ. spiralis</i> , 10 to 12 ins., TT.....	.45	.40	1000 <i>Thuja plicata</i> , 2-yr. S, 6 to 8 ins.....	.05	.04
1000 <i>Thuja occ. pyramidalis</i> , pot grafts.....	.35	..	500 <i>Thuja pyramidalis</i> , pot grafts.....	.35	..
2000 <i>Thuja occ. pyramidalis</i> , 2½-in. pots, 9 to 12 ins.....	.25	.25	5000 <i>Tsuga canadensis</i> (light), 2-yr. T, 6 to 10 ins.....	.25	.20
1000 <i>Thuja occ. pyramidalis</i> , 2-yr. T, 10 to 12 ins.....	.30	.25	*2000 <i>Tsuga canadensis</i> , 4-yr. TT, 10 to 12 ins.....	.35	.30
1500 <i>Thuja occ. pyramidalis</i> (transplanted grafts), 15 to 18 ins.....	.70	.60	*1700 <i>Tsuga canadensis</i> , 4-yr. TT, 12 to 16 ins.....	.45	.40
			1000 <i>Tsuga canadensis</i> , 4-yr. TT, 15 to 18 ins.....	.55	.50
			200 <i>Tsuga sargentii pendula</i> , pot grafts.....	.75	..

(*) F.O.B. Indiana shipping point.

DECIDUOUS LINING-OUT STOCK

	100 rate each	1000 rate each		100 rate each	1000 rate each
1000 <i>Acer dasycarpum</i> , 1-yr. S, 8 to 12 ins.....	\$0.08	\$0.06	800 <i>Lonicera grandiflora</i> roses, 1-yr. C, 8 to 12 ins.....	\$0.06	\$0.05
750 <i>Acer ginnala</i> , 2-yr. S, 8 to 12 ins.....	.08	.06½	500 <i>Magnolia soulangeana</i> , pot grafts.....	.60	..
3000 <i>Acer palmatum</i> , 1-yr. S, 6 to 8 ins.....	.06	.07	500 <i>Magnolia soulangeana</i> , 1-yr. T, 12 to 18 ins.....	1.00	..
500 <i>Acer palmatum atropurpureum</i> , pot grafts.....	.75	..	200 <i>Magnolia stellata</i> , pot grafts.....	.60	..
500 <i>Acer palmatum atropurpureum</i> (seed-grown), T, 9 to 12 ins.....	.80	..	500 <i>Malus</i> , assorted varieties, 1-yr. T, 18 to 24 ins.....	.25	..
2000 <i>Ampelopsis velitchi</i> , 1-yr. S, No. 1.....	.04	.03½	300 <i>Malus</i> , assorted varieties, 2-yr. T, 2 to 3 ft.....	.35	..
5000 <i>Ampelopsis velitchi</i> , 1-yr. S, No. 2.....	.03	.02	375 <i>Philadelphus Albatus</i> , 1-yr. C.....	.06	..
1000 <i>Ampelopsis velitchi</i> , 2-yr. T.....	.25	.20	3000 <i>Philadelphus coronarius aureus</i> , 2½-in. pots.....	.15	.12½
1500 <i>Althaea</i> , 1-yr. S.....	.04	.03	325 <i>Philadelphus Glacier</i> , 1-yr. C.....	.06	..
1000 <i>Azalea arnoldiana</i> , 1-yr. T, 6 to 9 ins.....	.18	.18	200 <i>Philadelphus virginialis</i> , 1-yr. T.....	.18	..
2000 <i>Azalea kempferi</i> , 1-yr. T, 6 to 9 ins.....	.18	.18	400 <i>Philadelphus virginialis</i> , 1-yr. T, 2 to 2½ ft.....	.20	.17½
1000 <i>Azalea poukhanensis</i> , 1-yr. T, 6 to 9 ins.....	.18	.18	500 <i>Photinia villosa</i> , 1-yr. S.....	.03	.02½
500 <i>Berberis koreana</i> , 1-yr. S.....	.04½	.04	300 <i>Populus nigra italica</i> , 1-yr. T, 4 to 6 ft.....	.15	..
5000 <i>Berberis thunbergii</i> , 1-yr. S.....	.01½	.01¼	2000 <i>Prunus americana</i> , 1-yr. S, 12 to 18 ins.....	.05	.04
5000 <i>Berberis thunbergii</i> , 2-yr. S.....	.05	.04	1500 <i>Rhamnus cathartica</i> , 1-yr. S, 6 to 8 ins.....	.05	.04
5000 <i>Berberis thunbergii</i> , 2-yr. T, 9 to 12 ins.....	.07½	.06½	500 <i>Rhodotypos kerrioides</i> , 1-yr. S, 6 to 10 ins.....	.09	.08
5000 <i>Berberis thun. atropurpurea</i> , 1-yr. S.....	.04	.02½	2000 <i>Rosa rubrifolia</i> , 2-yr. T, 6 to 10 ins.....	.08	.06
5000 <i>Berberis thun. atropurpurea</i> , 2-yr. T, 9 to 12 ins.....	.10	.09	4000 <i>Rosa rugosa</i> , 1-yr. S, 2 to 4 ins.....	.05	.04
500 <i>Celastrus orbiculatus</i> , 1-yr. S.....	.05	.04½	1500 <i>Rosa rugosa</i> , 2-yr. T, 10 to 12 ins.....	.08	.07½
2000 <i>Celastrus scandens</i> , 1-yr. S, 4 to 6 ins.....	.05	.04½	2000 <i>Rosa rugosa alba</i> , 1-yr. S, 2 to 4 ins.....	.10	.09
1000 <i>Cornus alba sibirica</i> , 2-yr. T, 6 to 10 ins.....	.07½	.06	2000 <i>Rosa setigera</i> , 1-yr. S, 6 to 10 ins.....	.06	.04
5000 <i>Cornus florida</i> (selected understocks), 12 to 18 ins.....	.06	.05	500 <i>Salix blanda</i> , 1-yr. S, 3 to 4 ft.....	.06	.07½
1000 <i>Cornus florida rubra</i> , pot grafts.....	.40	.37½	500 <i>Sophora japonica</i> , 1-yr. S.....	.10	.09
1000 <i>Cornus florida rubra</i> , 2-yr. T, grafts.....	1.25	1.00	2000 <i>Sorbus aucuparia</i> , 1-yr. S.....	.06	.05
5000 <i>Cornus kousa</i> , 1-yr. S.....	.05	.04½	200 <i>Sorbus aucuparia</i> , 3-yr. T, 3 to 4 ft.....	.50	..
2000 <i>Cornus masculina</i> , 1-yr. S, 6 to 10 ins.....	.05	.04½	400 <i>Spiraea Anthony Waterer</i> , 2-yr. C, 6 to 8 ins.....	.15	.12½
1000 <i>Cornus sanguinea</i> , 1-yr. S, 6 to 8 ins.....	.05	.04½	700 <i>Spiraea arguta</i> , 2-yr. C, 8 to 10 ins.....	.15	.12½
1000 <i>Cornus stolonifera</i> , 2-yr. S, 6 to 10 ins.....	.07½	.06	500 <i>Spiraea caliosa alba</i> , 2-yr. C, 3 to 5 ins.....	.12	.10
1000 <i>Cornus stolonifera lutea</i> , 2-yr. T, 6 to 10 ins.....	.07½	.06	500 <i>Symphoricarpos chenaultii</i> , 1-yr. C, 4 to 8 ins.....	.06	.05
500 <i>Colonnaster acutifolia</i> , 1-yr. S, 2 to 4 ins.....	.10	.09	3000 <i>Syringa pekinensis</i> , 1-yr. S, 2 to 4 ins.....	.06	.05
1000 <i>Cotoneaster horizontalis</i> , 2½-in. pots.....	.20	.18	500 <i>Syringa</i> , named hybrids, 1-yr. grafts.....	.25	..
300 <i>Crataegus cordata</i> , 2-yr. S.....	.15	..	200 <i>Syringa</i> , named hybrids, 2-yr. grafts.....	.35	..
5000 <i>Cydonia japonica</i> , 1-yr. S.....	.05	.04	1000 <i>Tamarix africana</i> , 1-yr. T.....	.06	.05
2000 <i>Cydonia japonica</i> (upright), 1-yr. S, 6 to 10 ins.....	.09	.07½	3000 <i>Viburnum americanum</i> , 2-yr. S, 10 to 14 ins.....	.10	.08
1000 <i>Cydonia japonica</i> , 2-yr. T.....	.12	.09½	500 <i>Viburnum burkwoodii</i> , pot grafts.....	.40	.30
500 <i>Deutzia gracilis</i> , 2-yr. C, 6 to 8 ins.....	.12½	..	1000 <i>Viburnum carlesii</i> , pot grafts.....	.40	..
2000 <i>Elaeagnus angustifolia</i> , 1-yr. S, 8 to 12 ins.....	.06	.05	2500 <i>Viburnum dentatum</i> , 2-yr. S, 8 to 12 ins.....	.12	.10
500 <i>Enkianthus campanulatus</i> , 1-yr. T.....	.18	.16	3000 <i>Viburnum dilatatum</i> , 1-yr. S.....	.06	.05
2000 <i>Euonymus vegetus</i> , rooted cuttings.....	.10	..	1000 <i>Viburnum lentago</i> , 2-yr. S, 4 to 8 ins.....	.10	.08
500 <i>Fagus sylvatica purpurea</i> , 1-yr. S.....	.15	..	1500 <i>Viburnum pubescens</i> , 2-yr. T, 6 to 10 ins.....	.12	.10
500 <i>Forsythia fortunei</i> , 2-yr. C, 12 to 16 ins.....	.12	.10	3000 <i>Viburnum steboldii</i> , 1-yr. S, 4 to 6 ins.....	.06	.05
800 <i>Forsythia primulina</i> , 1-yr. C.....	.06	.05½	3000 <i>Weigela Bristol Ruby</i> (patented), R.C. or 2½-in. pots.....	.25	.22½
1000 <i>Forsythia spectabilis</i> , 1-yr. C.....	.05	.04½	2000 <i>Weigela rosea</i> , 1-yr. C.....	.08	..
1000 <i>Hydrangea P.G.</i> , 2-yr. C, 6 to 8 ins.....	.15	.12½	500 <i>Wistaria sinensis</i> , 1-yr., purple, grafts.....	.20	..
200 <i>Hypericum densiflorum</i> , 2-yr. C, 8 to 12 ins.....	.12½	..	5000 <i>Vaccinium</i> (Hybrid Blueberries), rooted cuttings.....	.15	.10
5000 <i>Koeleruteria paniculata</i> , 1-yr. S, 12 to 15 ins.....	.08	.05	Varities: Concord, Rubel, Pioneer, Rancocas, Jersey, Stanley, at above prices. These varieties 10c each higher: Weymouth, Atlantic, Pemberton, Dixie.	..	..
2000 <i>Kolkwitzia amabilis</i> , 1-yr. T, 6 to 12 ins.....	.11	.10			
2000 <i>Kolkwitzia amabilis</i> , 2-yr. T, 12 to 18 ins.....	.20	.18			
1000 <i>Laburnum vulgare</i> , 1-yr. S.....	.08	.07½			
250 <i>Laburnum vulgare</i> , 2-yr. T.....	.12	..			
2000 <i>Ligustrum ibota</i> , 2-yr. S, 6 to 12 ins.....	.07½	.06½			
2000 <i>Lonicera bella albidula</i> , 1-yr. C, 8 to 12 ins.....	.06	.05			

Please note—All rooted cuttings and pot grafts will be ready for shipment Spring, 1950, at proper time.

All the above is grown by our best growers of lining-out material. All F.O.B. shipping points, packing additional at cost. Usual terms to trade accounts. The above is listed subject to prior sale and subject to usual trade terms as mentioned in our trade lists.

E. D. ROBINSON SALES AGENCY

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Wallingford, Conn.

Coming Events

MEETING CALENDAR.

January 3 to 6, Indiana Association of Nurserymen, Union Memorial building, Purdue University, West Lafayette.

January 4 to 6, A. A. N. Eastern Regional Meeting, Hotel Statler, New York.

January 5, New Jersey Association of Nurserymen, Hotel Statler, New York.

January 5, New York State Nurserymen's Association, Hotel Statler, New York.

January 9, Maryland Nurserymen's Association, Lord Baltimore hotel, Baltimore.

January 10, Missouri State Nurserymen's Association, Muehlebach hotel, Kansas City.

January 10 and 11, Oklahoma State Nurserymen's Association, Biltmore hotel, Oklahoma City.

January 11, Kansas Nurserymen's Association, Hotel Muehlebach, Kansas City, Mo.

January 11 and 12, Western Association of Nurserymen, Hotel Muehlebach, Kansas City, Mo.

January 12, Connecticut Nurserymen's Association, Waverly Inn, Cheshire.

January 13 and 14, Iowa Nurserymen's Association, Hotel Kirkwood, Des Moines.

January 15 to 17, Executive Committee, American Association of Nurserymen, Hotel La Salle, Chicago.

January 16, National Landscape Nurserymen's Association, Hotel La Salle, Chicago.

January 16, National Mail Order Nurserymen's Association, Hotel La Salle, Chicago.

January 16, All-America Rose Selections, Inc., Hotel La Salle, Chicago.

January 16 to 18, Idaho Nurserymen's Association, Boise.

January 17 to 19, Illinois State Nurserymen's Association, Hotel La Salle, Chicago.

January 20, Western New York Nurserymen's Association, Hotel Seneca, Rochester.

January 23 and 24, Washington State Nurserymen's Association, Davenport hotel, Spokane.

January 23 to 25, Short Course for Nurserymen, Landscape Gardeners and Arborists, Neil House, Columbus, O.

January 25, New Jersey Association of Nurserymen, Hotel Hildebrecht, Trenton.

January 25 and 26, Pennsylvania Nurserymen's Association, Bellevue Stratford hotel, Philadelphia.

January 25 to 27, Indiana Arborists' Association, Purdue University, West Lafayette.

January 26 and 27, Ohio Nurserymen's Association, Neil House, Columbus.

January 29 to 31, Virginia Nurserymen's Association, Hotel John Marshall, Richmond.

February 1 to 3, Michigan Association of Nurserymen, Fort Shelby hotel, Detroit.

February 2, Oregon Association of Nurserymen, Heathman hotel, Portland.

February 2 and 3, Tennessee State Nurserymen's Association, Andrew Johnson hotel, Knoxville, and nurserymen's short course at the University of Tennessee, Knoxville.

February 7, Massachusetts Nurserymen's Association, Hotel Kenmore, Boston.

February 7 to 9, New England Nurserymen's Association, Hotel Kenmore, Boston.

February 15, Rhode Island Nurserymen's Association, Newport.

February 15 to 19, Midwestern Chapter of National Shade Tree Conference, Hotel La Salle, Chicago.

February 21 to 23, Pennsylvania Nurserymen's Conference, State College, Pa.

MISSOURI SCHEDULE.

Preceding the Western Association of Nurserymen convention, the Missouri State Nurserymen's Association will meet January 10 at the Hotel Muehlebach, Kansas City. The morning will be free for registration, and the program will fill the hours from 1 p. m. to 5 p. m. Dinner and the election of officers is scheduled for 7:30 p. m.

KANSAS MEETING.

A luncheon meeting has been scheduled by the Kansas Nurserymen's Association January 11 at the Hotel Muehlebach, Kansas City, Mo.

CONNECTICUT SPEAKER.

The afternoon of January 12 at the Waverly Inn, Cheshire, the Connecticut Nurserymen's Association will hear George C. Waldo, editor

"SPECIALS" FROM OUR NEW LIST

TAXUS

Hicksi—Hatfieldi
Cuspidata (Spreading)
Extra-strong, 2-yr., field-growing.
Per 100
8 to 10 ins., B.R. \$25.00
10 to 12 ins., B.R. 30.00

KOSTER NURSERY BRIDGETON, N. J.

SHADE TREES

Elm. American.	Each	Per 10
8 to 10 ft.	\$2.25	\$21.50
10 to 12 ft.	2.65	25.00
Maple, Silver.		
10 to 12 ft.	2.25	21.50
2 to 2½-in. cal.	4.50	42.50
Poplar, Lombardy.		
6 to 8 ft.	6.00	
8 to 10 ft.	7.50	
10 to 12 ft.	12.00	

Write for prices on Shade Trees in other varieties and larger quantities; also Fruit Trees and other Plant Material.

WAYNESBORO NURSERIES WAYNESBORO, VIRGINIA

EVERGREENS

Seedlings and Transplants
Spring, 1950

Write for price list.

SUNCREST EVERGREEN NURSERIES JOHNSTOWN, PA.

AMERICAN NURSERYMAN

of the Bridgeport Post, Bridgeport, speak on "Bringing Trees Back to Connecticut." The association will hold its annual business meeting that morning.

PENNSYLVANIA DATES.

The Pennsylvania Nurserymen's Association will hold its annual convention January 25 and 26 at the Bellevue-Stratford hotel, Philadelphia, Secretary A. F. Meehan has announced.

TENNESSEE DATES.

The annual meeting of the Tennessee State Nurserymen's Association and the short course for Tennessee nurserymen put on by the department of horticulture, University of Tennessee, will be held at Knoxville, February 2 and 3. Headquarters for the meeting will be the Andrew Johnson hotel. Outstanding speakers are being secured to discuss subjects

NORTHERN-GROWN LINING-OUT STOCK

Betula papyrifera	Per 100	Per 1000
1 to 2 ft.	\$6.00	\$50.00
2 to 3 ft.	8.00	70.00
Clethra alnifolia		
6 to 18 ins.	5.00	45.00
Ilex verticillata		
1 to 2 ft.	5.00	40.00
Syringa vulgaris		
1 to 2 ft.	6.00	50.00
Viburnum cassinoides		
1 to 2 ft.	6.00	50.00
Viburnum lentago		
1 to 2 ft.	6.00	50.00

EVERGREENS

Thuja occidentalis	Per 100	Per 1000
6 to 12 ins.	5.00	40.00
Tsuga canadensis		
4 to 8 ins.	4.00	25.00
8 to 12 ins.	5.00	40.00

The above stock is first-quality collected lining-out stock. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS P.O. Box 352 Exeter, New Hampshire

LINING-OUT STOCK

Spring, 1950

Hardy Azalea Hinodegiri, Hinomayo, Nome, Snow, Azalea Kaempferi Hybrids: Carmen, Cleopatra, Fedora, Atlanta, Mme. Butterfly, etc.

1-yr., 3 to 5 ins., 18c ea.;
4 to 6 ins., 25c ea.
2-yr., 4 to 6 ins., 35c ea.;
6 to 8 ins., 50c ea.

Cornus florida rubra, 1-yr. grafts, 13 to 24 ins., 75c ea. Acer atropurpureum, 1-yr. grafts, 9 to 12 ins., 75c ea. Lilacs, 1-yr. grafts, many varieties, 20c ea. Ask for complete list of other varieties.

DEERFIELD NURSERIES DEERFIELD STREET P.O., N. J.

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2% cash discount for orders up to \$1,500.00 from now to June 1, 1950
 5% cash discount for orders of \$1,500.00 and more from now to June 1, 1950
 10% cash discount for orders of \$2,500.00 and more from now to June 1, 1950

*BERBERIS ATROPURPUREA.

Red Barberry.		
2-yr. trans.	Per 100	Per 1000
15 to 18 ins.	\$25.00	\$200.00
18 to 24 ins.	30.00	250.00

*BERBERIS ATROPURPUREA.

Red Barberry.		
2-yr. untr.		
12 to 15 ins.		60.00
15 to 18 ins.		80.00
18 to 24 ins.		100.00

*BERBERIS THUNBERGI.

Green Barberry.		
2-yr. trans.		
15 to 18 ins.	20.00	150.00
18 to 24 ins.	25.00	200.00

*BERBERIS THUNBERGI.

Green Barberry.		
2-yr. untr.		
12 to 15 ins.		50.00
15 to 18 ins.		60.00
18 to 24 ins.		80.00

Write for special quantity prices on 10,000 and up.

*TSUGA CANADENSIS, Specimens.

Canada Hemlock.	Each	Each
	per 10	per 100
2 to 3 ft., B&B, heavy.	\$2.60	\$2.50
3 to 4 ft., B&B, heavy.	3.60	3.50
4 to 5 ft., B&B, heavy.	5.10	5.00

*THUJA NIGRA.

Black American Arborvitae.		
2 to 3 ft.	2.10	2.00
3 to 4 ft.	3.10	3.00

*THUJA OCCIDENTALIS PYRAMIDALIS.

Pyramidal Arborvitae.		
2 to 3 ft., B&B.	2.10	2.00
3 to 4 ft., B&B.	2.60	2.50
4 to 5 ft., B&B.	3.10	3.00
5 to 6 ft., B&B.	4.10	4.00

*THUJA OCCIDENTALIS.

American Arborvitae.		
3 to 4 ft., B&B.	2.10	2.00
4 to 5 ft., B&B.	3.10	3.00

*THUJA OCCIDENTALIS GLOBOSA.

Globe Arborvitae.		
18 to 24 ins., B&B.	1.60	1.50
24 to 30 ins., B&B.	1.85	1.75

*TAXUS CUSPIDATA CAPITATA.

Upright Yew.	Each	Each
	per 10	per 100
24 to 30 ins., B&B.	\$ 4.10	\$4.00
30 to 36 ins., B&B.	5.10	5.00
36 to 42 ins., B&B.	6.10	6.00
42 to 48 ins., B&B.	10.00	...

*TAXUS CUSPIDATA.

Spreading Yew.		
*18 to 24 ins., B&B.	3.10	3.00
24 to 30 ins., B&B.	4.10	4.00

*TAXUS HICKSI.

Hicks' Yew.		
24 to 30 ins.	4.10	4.00
30 to 36 ins.	5.10	5.00

*TAXUS HATFIELDI.

Hatfield Yew.		
24 to 30 ins.	4.10	4.00

*TAXUS INTERMEDIA.

18 to 24 ins., spread.	3.60	3.50
24 to 30 ins., spread.	4.60	4.50

*TAXUS BREVIFOLIA.

Spreading Yew.		
15 to 18 ins., B&B.	4.10	4.00

*RETINOSPORA PLUMOSA.

Plumosa.		
18 to 24 ins., B&B.	1.60	1.50
24 to 30 ins., B&B.	2.10	2.00
30 to 36 ins., B&B.	2.60	2.50

*RETINOSPORA PLUMOSA AUREA.

Plumosa Aurea.		
18 to 24 ins., B&B.	1.60	1.50
24 to 30 ins., B&B.	2.10	2.00
30 to 36 ins., B&B.	2.60	2.50

RHODODENDRON CATAWBIENSE.

18 to 24 ins.	3.10	3.00
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RHODODENDRON MAXIMUM.

18 to 24 ins.	3.10	3.00
---------------	------	------

BLUEBERRY.

Cabot.		
2 to 3 ft.	2.10	2.00
Rubel.		
2 to 3 ft.	2.10	2.00

All items starred () can be certified for western shipment.

All Evergreens B&B at List Prices.

Deliveries by full truck and carload only—or call for your own stock.

NO BOXING

(Prices subject to change without notice.)

LINING-OUT and FINISHED STOCK

Offered below are potted rooted cuttings and field bed transplants, x indicating times transplanted. 25 of one item at the 100 rate, 250 at the 1000 rate. No charge for packing when cash accompanies order. Otherwise, 25 per cent with order, balance net 30 days where credit is established. Others, C.O.D. Packing at actual cost. All prices F.O.B. New Augusta, Ind.

LINERS

	Each per 100	Each per 1000		Each per 100	Each per 1000
849 Juniperus Horizontalis Plumosa, 1-yr. pots.....	\$0.17	\$0.15	5265 Taxus Media, Globe, 1-yr. pots.....	\$0.20	\$0.18
1391 Juniperus Communis, Vase, 1-yr. pots.....	.17	.15	7655 2-yr. pots.....	.23	.21
3742 Taxus Cuspidata, 1-yr. pots.....	.20	.18	2741 6 to 8 ins., x.....	.25	.22
6022 2-yr. pots.....	.25	.23	1349 10 to 12 ins., xx.....	.35	.32
3799 6 to 8 ins., x.....	.27	.24	2731 Taxus Media Hatfieldi, 1-yr. pots.....	.20	.18
3960 Taxus Cusp. Intermedia, 2-yr. pots.....	.25	.23	2909 2-yr. pots.....	.24	.22
1017 Taxus Cusp., Kallay's Imp., 6 to 8 ins., x.....	.27	.24	1384 6 to 8 ins., x.....	.25	.23
1089 Taxus Cusp. Nana, 1-yr. pots.....	.20	.18	2417 8 to 10 ins., xx.....	.28	.25
4266 2-yr. pots.....	.23	.21	9503 Taxus Media Hicksi, 1-yr. pots.....	.19	.17
897 6 to 8 ins., x.....	.25	.24	1114 2-yr. pots.....	.23	.21
1772 Taxus Cusp. Pyramidalis Hilli, 1-yr. pots.....	.20	.18	4085 10 to 12 ins., xx.....	.34	.31
1396 2-yr. pots.....	.24	.22	1865 Taxus Media Thayerae, 1-yr. pots.....	.20	.18
1884 6 to 8 ins., x.....	.26	.24	1195 Taxus Media Wellesleyana, 2-yr. pots.....	.24	.22
3226 Taxus Cusp. Tardiva, 2-yr. pots.....	.24	.22	410 Thuja Occidentalis Elegantissima, 1-yr. pots.....	.16	.14
			930 Thuja Occidentalis Globosa, 1-yr. pots.....	.16	.14
			1897 Buxus, Carr's Hardy, 1-yr. pots.....	.20	.18
			883 2-yr. pots.....	.24	.22

FINISHED SIZES

Fine, finished, landscape grades, all B&B. 5 or more at the 10 rate; 25 or more at the 100 rate.					
	Each per 10	Each per 100		Each per 10	Each per 100
600 Juniperus Chin. Pfitzeriana, 3 to 4 ft.....	\$ 6.00	\$5.50	250 Juniperus Virg. Kosteri, 3 to 4 ft.....	\$6.00	\$5.50
600 4 to 5 ft.....	7.00	6.50	500 Taxus Cuspidata, 18 to 24 ins. 2 to 2 1/2 ft.....	4.50	4.00
400 Juniperus Horizontalis Plumosa, 2 to 2 1/2 ft.....	2.50	2.25	500 Taxus Media Hicksi, 18 to 24 ins.....	4.50	4.00
300 2 1/2 to 3 ft.....	3.00	2.75	500 2 to 2 1/2 ft.....	5.75	5.25
300 Juniperus Horizontalis Douglasi, 2 to 2 1/2 ft.....	2.50	2.25	100 Thuja Occidentalis, 4 to 5 ft.....	4.00	3.75
100 Juniperus Virg. Pyramidalis, 7 to 8 ft.....	10.00	9.00	100 Thuja Occidentalis Pyramidalis, 4 to 5 ft.....	4.50	4.00
			200 Thuja Occidentalis Wareana, 2 1/2 to 3 ft.....	3.25	3.00

WRITE FOR COMPLETE LINER AND SURPLUS LIST

WANT LIST

The following items are needed, both in liners and finished stock. Please quote us what you can supply, per 100 and per 1000.

Euonymus Alatus Compactus, liners, 12 to 15 ins., 15 to 18 ins.,
18 to 24 ins., 2 to 3 ft. and 3 to 4 ft.
Mahonia Aquifolium, liners, 12 to 15 ins., 15 to 18 ins. and 18 to 24 ins.
Viburnum Rhytidophyllum, liners, 12 to 15 ins., 15 to 18 ins. and
18 to 24 ins.
Viburnum Tomentosum, 18 to 24 ins., 2 to 3 ft. and 3 to 4 ft.



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EAGLE CREEK NURSERY CO.

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CHINESE CHESTNUT

BLIGHT-RESISTANT

Hemming strain of trees raised only from our heavy-bearing parent trees.

	Per 10	Per 100	Per 1000
18 to 24 ins.....	\$ 3.50	\$32.50	\$300.00
2 to 3 ft.....	6.00	55.00	500.00
3 to 4 ft.....	8.00	70.00	650.00
4 to 5 ft.....	10.00	90.00	750.00

F.O.B. Nurseries, packing extra.

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EASTON, MARYLAND

THE RHODE ISLAND NURSERIES

NEWPORT, R. I.

Acer palmatum atropurpureum, 3-yr. transplants, 6 to 12 ins.

Viburnum opulus, 2-yr. transplants, 6 to 12 ins.

Myrica cerifera, 2-yr. transplants, 3 to 6 ins.

Write for samples and prices.

of interest to nurserymen, landscape men and fruit growers.

MORE NEW YORK SPEAKERS.

Since the program for the eastern regional nurserymen's convention was published in the December issues, final details have been completed for the meeting January 4 to 6 at the Hotel Statler, New York.

In response to a request for an opportunity to have an informal forum on plant materials and their unusual uses, such an open discussion has been arranged for the evening of January 5. Dr. A. M. S. Pridham, Cornell University, Ithaca, will be moderator, and will be assisted by Prof. Emeritus Ralph Curtis, Dr. Donald Welch, Dr. John Cornman and Dr. George Matthyse, all of Cornell University; Henry Skinner, curator of the Morris Arboretum, Philadelphia, and G. G. Nearing, rhododendron specialist.

Speaker for the luncheon January 5 will be Spencer Miller, Jr., since 1942 commissioner of state highways for New Jersey. Mr. Miller has had an interesting life, having conducted special research projects for numerous official bodies in this country and abroad for over twenty-five years. He has lectured extensively at colleges in the United States and Europe, and has served on the faculty of Fordham University and New York University as a lecturer on industrial relations. In addition, he has been vice-president and an executive committee member of the American Association of State Highway Officials. He is associated with many civic and philanthropical organizations.

Dr. Joseph E. Howland, garden editor of House Beautiful magazine, New York, who is to speak at the afternoon session January 5 on "Climate Control Through Planting," received his Ph. D. from Cornell University in 1945. He has specialized in work on roses and plant nutrition. He is a member of several scientific organizations, among them the American Association for the Advancement of Science, the American Phytopathological Society and the American Association for Horticultural Science. Before becoming associated with House Beautiful, Dr. Howland was associate editor of Better Homes and Gardens magazine for three years. Dr. Howland is supervising the landscaping of House Beautiful's demonstration houses, the most recent of which was the climate control demonstration house and garden built at Orange, N. J., and shown in the magazine's November issue.

Dr. Luther Baumgartner, who will speak at the final session January 6, is in charge of the biochemistry labora-

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Place your order now for shipment when wanted. All stock listed here can be shipped promptly upon receipt of order. Liberally graded, true-to-name, best quality stock—offered at attractive prices.

CANNAS

Carefully grown under our personal supervision, they are true-to-name, liberally graded, 2 to 5-eye, strong divisions and will please the most exacting type of customer. Our Cannas are available for delivery when wanted during the Winter and Spring months.

	Per 100	Per 1000
Allemania, Ambassador, Charles Henderson, City of Portland, Egandale, Firebird, Florence Vaughan, Golden Gate, Hungaria, Kate Grey, King Midas, Madam Crozy, Richard Wallace, Shenandoah, Venus Pink, Wintzer's Colossal, Wyoming.....	\$6.00	\$50.00
King Humbert, President, Copper Giant, Louis Cayeux, Yellow King Humbert.....	7.00	60.00

PEACH TREES

1-year Buds	Each	Per 10	Per 100	Per 1000
1-in. and up, heavily br.....	\$1.05	\$9.00	\$80.00	\$750.00
7/8 to 1-in., 6 to 7 ft.....	.90	7.50	65.00	600.00
11/16 to 7/8-in., 5 to 6 ft.....	.75	6.00	50.00	450.00
9/16 to 11/16-in., 4 to 5 ft.....	.65	5.00	40.00	350.00
7/16 to 9/16-in., 3 to 4 ft.....	.55	4.00	30.00	250.00
5/16 to 7/16-in., 2 to 3 ft.....	.45	3.00	20.00	150.00
1/4 to 5/16-in., 2 to 3 ft.....	.40	2.50	15.00	125.00

Belle of Georgia, Brackett, Corman, Crawford's Early, Crawford's Late, Early Rose, Elberta, Gage Elberta, Goldeneast, Golden Jubilee, Greensboro, Halehaven, Heath Cling, Hiley, J. H. Hale, Krummel's Late, O'Boy, Redhaven, Rochester, Shipper's Late Red, Summercrest, Triogem, Valiant, Vedette, White Hale.

APPLE TREES

2-year Buds	Each	Per 10	Per 100	Per 1000
1-in. and up, heavily br.....	\$1.05	\$9.00	\$80.00	\$750.00
7/8 to 1-in., 6 to 7 ft.....	.90	7.50	65.00	600.00
11/16 to 7/8-in., 5 to 6 ft.....	.70	5.50	45.00	400.00
9/16 to 11/16-in., 4 to 5 ft.....	.65	5.00	40.00	350.00
7/16 to 9/16-in., 3 to 4 ft.....	.50	3.80	28.00	250.00
5/16 to 7/16-in., 2 to 3 ft.....	.45	3.20	22.00	200.00

Baldwin, Double Red Delicious, Red Gravenstein, Grimes Golden, Hyslop Crab, Double Red Jonathan, Lodi, McIntosh, Double Red McIntosh, Red Spy, Red Rome, R. I. Greening, Solid Red Delicious, Double Red Stayman, Williams Early Red, Yellow Delicious, Yellow Transparent, York Imperial.

PEAR TREES

2-year Buds	Each	Per 10	Per 100
11/16-in. and up, 5 to 6 ft.....	\$1.05	\$9.00	\$75.00
9/16 to 11/16-in., 4 to 5 ft.....	.90	7.50	60.00
7/16 to 9/16-in., 3 to 4 ft.....	.75	6.00	45.00

Bartlett, Clapp Favorite, Duchess, Kieffer, Seckal.

SOUR CHERRY

	Each	Per 10	Per 100
11/16-in. cal. and up.....	\$1.20	\$10.50	\$90.00
9/16 to 11/16-in. cal.....	1.10	9.50	80.00
7/16 to 9/16-in. cal.....	.95	8.00	65.00
5/16 to 7/16-in. cal.....	.85	7.00	55.00

Montmorency, May Duke, Early Richmond, English Morello.

SWEET CHERRY

	Each	Per 10	Per 100
11/16-in. cal. and up.....	\$1.40	\$12.50	\$115.00
9/16 to 11/16-in., 4 to 5 ft.....	1.15	10.00	90.00
7/16 to 9/16-in., 3 to 4 ft.....	1.00	8.50	75.00
5/16 to 7/16-in., 2 to 3 ft.....	.90	7.50	65.00

Black Tartarian, Governor Wood, Lambert, Napoleon, Schmidt's Bigarreau, Yellow Spanish.

ASPARAGUS ROOTS

Our Asparagus Roots have made a very good growth this season. We are the largest growers of Asparagus in the country. Write for special prices on large numbers.

MARY WASHINGTON, PARADISE

	Per 25	Per 100	Per 250	Per 1000
2-yr., No. 1.....	\$0.75	\$2.50	\$4.75	\$16.00
1-yr., No. 1.....	.60	2.00	3.50	10.00

RHUBARB ROOTS

VICTORIA, MYATT'S LINNAEUS.

	Per 25	Per 100	Per 250	Per 1000
2-in. and up, forcing grade.....	\$2.75	\$9.50	\$22.50	....
1 1/2 to 2-in. cal.....	2.00	6.50	15.00	\$55.00
1 to 1 1/2-in. cal.....	1.50	4.50	10.00	35.00
3/8 to 1-in. cal.....	1.25	3.50	7.50	25.00
1/2 to 3/8-in. cal.....	1.00	2.50	5.00	16.00

BERRY PLANTS

No. 1 grade

	Per 10	Per 25	Per 100	Per 1000
Thorny Boysenberry.....	\$1.00	\$2.00	\$6.00	\$40.00
Thornless Boysenberry.....	1.00	2.00	7.00	50.00
Lucretia Dewberry.....	.60	1.25	4.00	30.00
Cumberland Raspberry.....	1.00	2.00	6.00	45.00
Indian Summer Raspberry.....	1.00	2.00	7.00	60.00
Latham Raspberry.....	1.00	2.00	6.00	50.00
St. Regis Raspberry.....	1.00	2.00	6.00	50.00
Sunrise Raspberry.....	1.00	2.00	7.00	60.00
Blowers Blackberry.....	1.00	2.00	6.00	45.00
Eldorado Blackberry.....	1.00	2.00	6.00	45.00

GRAPEVINES

Our grapes have heavy, fibrous root systems, with many lengthy canes at the top. Write for prices on large numbers.

	Each	Per 10	Per 100	Per 1000
CONCORD (blue):				
2-yr., No. 1 grade.....	\$0.25	\$1.75	\$12.00	\$ 90.00
1-yr., No. 1 grade.....	.20	1.50	9.00	60.00

FREDONIA (black).

NIAGARA (white):

2-yr., No. 1 grade.....	.25	1.75	12.00	100.00
1-yr., No. 1 grade.....	.20	1.50	9.00	70.00

AGAWAM (red), BRIGHTON (red),

CATAWBA (mahogany), MOORE'S

DIAMOND (white), MOORE'S

EARLY (black), WORDEN (black):

2-yr., No. 1 grade.....	.30	2.00	15.00	120.00
1-yr., No. 1 grade.....	.25	1.75	12.00	90.00

CACO (red), DELAWARE (red),

PORTLAND (white):

2-yr., No. 1 grade.....	.30	2.25	18.00	150.00
1-yr., No. 1 grade.....	.25	2.00	15.00	120.00

PLUM TREES

	Each	Per 10	Per 100
11/16 to 7/8-in., 5 to 6 ft.....	\$1.00	\$8.50	\$75.00
9/16 to 11/16-in., 4 to 5 ft.....	.85	7.00	60.00
7/16 to 9/16-in., 3 to 4 ft.....	.70	5.50	45.00
5/16 to 7/16-in., 2 to 3 ft.....	.65	5.00	40.00

Abundance, Burbank, Fellenberg, Stanley, Shropshire Damson, Red June.

FREE PACKING FOR CASH WITH ORDER. Our Fall, 1949, Wholesale List offers a complete line of nursery stock. If you did not receive a copy, write us today. When requesting wholesale rates, kindly use your printed stationery. If interested in large lots, kindly submit your list of requirements for special consideration.

PLUMFIELD NURSERIES

BOX 7

L. A. Moffet, Mgr.

FREMONT, NEB.

TERMS AND CONDITIONS OF SALE

TERMS—One per cent discount for cash if paid on or before 10th of month following date of invoice, and is due NET 30 days thereafter. Interest charged on past due accounts.

These terms are offered to those with established credit; otherwise cash, security, or satisfactory references. C.O.D. orders must be accompanied by one-fourth cash.

PRICES in this list are based upon present market conditions and are subject to change without notice. These are Wholesale Prices and apply upon the following quantities:

		Per 100	Per 1000			Per 100	Per 1000
Ash, Green.				Maple, Silver.			
15,000	18 to 24 ins...	\$ 2.50	\$ 22.00	300	3 to 4 ft...	\$ 7.00	\$ 60.00
70,000	12 to 18 ins...	1.80	15.00	12,000	2 to 3 ft...	4.50	40.00
200,000	6 to 12 ins...	1.20	10.00	25,000	18 to 24 ins...	2.90	25.00
Buckthorn, Dahurian.				18,000	12 to 18 ins...	1.80	15.00
300	2 to 3 ft...	7.50	65.00	6000	6 to 12 ins...	1.20	10.00
12,000	6 to 12 ins...	3.00	25.00	Mulberry, Russian.			
Caragana.				31,000	2 to 3 ft...	4.00	35.00
1000	2 to 3 ft...	6.00	55.00	20,000	18 to 24 ins...	2.90	25.00
5000	18 to 24 ins...	4.50	40.00	30,000	12 to 18 ins...	1.90	16.00
12,000	12 to 18 ins...	3.20	28.00	59,000	6 to 12 ins...	1.20	10.00
20,000	6 to 12 ins...	2.10	18.00	Pin Oak.			
Cottonwood.				11,000	2 to 3 ft...	12.00	100.00
7000	3 to 4 ft...	1.70	15.00	500	18 to 24 ins...	9.00	80.00
60,000	2 to 3 ft...	1.40	12.00	1500	12 to 18 ins...	7.00	60.00
12,000	12 to 18 ins...	.80	7.00	600	8 to 12 ins...	5.00	40.00
Cydonia Japonica				Poplar, Lombardy, 1-yr.			
3500	6 to 12 ins...	2.50	20.00	1600	5 to 6 ft...	14.00	120.00
Elm, Chinese.				1000	4 to 5 ft...	10.00	90.00
20,000	2 to 3 ft...	3.50	30.00	500	3 to 4 ft...	8.50	75.00
160,000	18 to 24 ins...	2.40	20.00	100	2 to 3 ft...	5.60	50.00
100,000	12 to 18 ins...	1.70	14.00	Redbud.			
2,000,000	6 to 12 ins...	.80	7.00	Nebraska-grown, Nebraska seeds.			
Honeysuckle.				2000	12 to 18 ins...	7.50	70.00
100,000	6 to 12 ins...	2.50	20.00	10,000	6 to 12 ins...	5.00	40.00
Honey Locust, Thornless.				Sand Cherry.			
2000	2 to 3 ft...	3.50	30.00	8000	2 to 3 ft...	10.00	90.00
5000	18 to 24 ins...	2.60	22.00	30,000	18 to 24 ins...	8.00	70.00
30,000	12 to 18 ins...	1.80	15.00	30,000	12 to 18 ins...	5.50	50.00
80,000	6 to 12 ins...	1.40	12.00	15,000	6 to 12 ins...	4.00	35.00
Locust, Black.				Rosa Multiflora.			
8000	3 to 4 ft...	4.50	40.00	Grown from western seeds.			
20,000	2 to 3 ft...	2.90	25.00	100,000	8 to 15 ins...		
					1 to 3 mm.	2.50	20.00

Write for special quotations on large quantities.

MAXWELL, BOWDEN & RICE

Incorporated
Wholesale Nurseries
GENEVA, NEW YORK
Phone 2974

J & P

EVERGREENS
SHADE TREES

SHRUBS, VINES
HEDGE PLANTS, etc.

In good assortment.

Jackson & Perkins Co.
NEWARK, NEW YORK STATE

The Yew, listed by us as Taxus Cuspidata, compact form, is surely a superior spreading form—in fact, we have never seen any better. Even our straight Cuspidata is grown only from a selected, uniform strain.

F & F NURSERIES

SPRINGFIELD, N. J.

**ORNAMENTAL
EVERGREENS
Trees & Shrubs**

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

tory at Yonkers, N. Y., of the B. F. Goodrich Co. Among some of the developments from that laboratory have been a deer repellent for use on nursery stock and a plastic material that increases survival probabilities of transplanted stock.

OKLAHOMA PLANS.

Program plans have been completed for the convention of the Oklahoma State Nurserymen's Association, January 10 and 11 at the Biltmore hotel, Oklahoma City, and a good attendance is expected, according to Vice-president Richard Bloss, chairman of the program committee.

Highlight of the first day's program will be an address by Richard P. White, executive secretary of the American Association of Nurserymen, Washington, D. C. Other speakers who will be heard during the 2-day convention are W. J. Smart, D. Hill Nursery Co., Dundee, Ill., whose subject will be "The Future Outlook for the Nursery Business"; Mancill Allen, Mancill Allen Nursery & Garden Clinic, Houston, Tex., and members of the faculty of Oklahoma A. and M. College, Stillwater, including Harry P. Rigdon, division of forestry, R. P. Ealy, department of horticulture, and Dr. Frank B. Cross, head of the department of horticulture.

Entertainment features will include a banquet Tuesday night at Beverly's restaurant and brunch at the home of Warren Welch, Capitol Garden Nurseries, president of the association.

Arrangements have been made to have a baby sitter available at all times during the convention for those who bring their children. B. H. P.

MARYLAND PROGRAM.

The address of President Jack Rayner, Rayner Bros., Salisbury, will open the one-day convention of the Maryland Nurserymen's Association at 9:45 a. m. January 9, at the Lord Baltimore hotel, Baltimore.

The morning session will then be devoted to the American Association of Nurserymen, committee reports of the Maryland association and a business session. Curtis Porterfield, administrative assistant of the A. A. N. to be held in July, will speak on "A. A. N. Affairs as They Affect Maryland Nurserymen," and J. H. Burton, Hyattsville, who is chairman for the convention of the A. A. N. to be held in July, will discuss "Plans for the A. A. N. Diamond Jubilee Convention." G. Hale Harrison, committee chairman, will report on the sales tax situation, and



**OVER 5,000 NURSERYMEN NOW USE
CLOVERSET POTS*... BECAUSE IT PAYS**

GET IN STEP WITH CLOVERSET POTS FOR BIGGER PROFITS IN 1950

That's right—over 5,000 nurserymen and florist growers all over the country are using Cloverset Pots, because they have learned that Cloverset Pots increase their profits. You, too, can earn bigger profits the streamlined Cloverset way—our free book, "Sell Plants in Pots for Profit," will tell you how. Send for it today!

Order samples, too, and see for yourself how easy it is to handle Cloverset Pots. Your workmen will like them. Your customers will like them, because potted plants are easier to buy and easier to carry home safely, can be transplanted any time and are much more sure to grow. And YOU'LL like the bigger profits they bring.

Cloverset Pots . . .

1. **Extend profitable cash-and-carry season from early spring to late fall.**
2. **Make prettier displays; attract best-type customers.**
3. **Increase customer satisfaction.**
4. **Make it safer for you to guarantee that the plants you sell will thrive and grow.**
5. **Build more business at bigger profits!**

POT NOW peonies, poppies, lilies and bleeding hearts, for spring sales when demand is greatest. Carry in outdoor frames through the winter. They will bloom beautifully next spring and sell well.

STANDARD HEAVY POTS

Sample Set A: 0, 1, 2 & 3, 25c

EXTRA-HEAVY

Sample 25c

SPECIAL LIGHT POTS

Sample Set B: 0, 1 & 2, 25c



No. 0
For greenhouse and perennials

No. 1
For larger perennials

No. 2
For roses and shrubs

No. 3
For large shrubs and transplanting

No. 4
For large shrubs, fruit trees, evergreens

SAMPLE SET C: ALL 8 SIZES AND WEIGHTS, 50c

*Pat. No. 2073695

**THIS FREE BOOK CAN
HELP YOU TO IN-
CREASE PROFITS!
SEND FOR YOUR COPY
NOW; MAIL THE COU-
PON TODAY!**



Practical Nurserymen for Over 26 Years

Cloverset Flower Farm
105th St. and Broadway
Kansas City 5, Mo.

**ALL SENT
POSTPAID**

Please send me items checked. I enclose.....c.

- ☐ SAMPLE SET A, 25c ☐ SAMPLE SET B, 25c
☐ SAMPLE OF POT NO. 4, extra-heavy, 25c
☐ SAMPLE SET C, all 8 sizes and weights, 50c
☐ FREE BOOK, "Sell Plants in Pots for Profit"

Name.....

Firm.....

Address.....

City.....Zone.....State.....

CLOVERSET FLOWER FARM

ERNEST HAYSLE & SON

105th Street and Broadway, Kansas City 5, Mo.

PLUMFIELD NURSERIES

BOX 7

L. A. Moffet, Mgr.

FREMONT, NEB.

TERMS AND CONDITIONS OF SALE

TERMS—One per cent discount for cash if paid on or before 10th of month following date of invoice, and is due NET 30 days thereafter. Interest charged on past due accounts.

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PRICES in this list are based upon present market conditions and are subject to change without notice. These are Wholesale Prices and apply upon the following quantities:

SURPLUS LIST

	Per 10	Per 100	Per 1000
2000 Thuja Orientalis, R.P., 12 to 18 ins.....	\$ 1.00	\$ 8.50	\$ 75.00
5000 Thuja Orientalis, R.P., 9 to 12 ins.....	.80	7.00	60.00
5000 Thuja Orientalis, R.P., 6 to 9 ins.....	.70	6.00	50.00
500 Thuja, Pyramidal, TTT, 9 to 12 ins.....	4.50	40.00	350.00
500 Juniper, Andorra, TTT, 12 to 18 ins.....	6.00	55.00	500.00
70 Juniper, Tamarix, TTT, 12 to 18 ins.....	7.00	65.00	600.00
750 Juniper, Hetz, TTT, 12 to 18 ins.....	6.00	55.00	500.00
250 Juniper, Hetz, TTT, 9 to 12 ins.....	4.70	45.00	420.00
25 Juniper, Pfitzer Golden, TTT, 12 to 18 ins.....	6.00	55.00	500.00
75 Juniper, Pfitzer Golden, TTT, 9 to 12 ins.....	4.70	45.00	420.00
1000 Juniper, Pfitzer, TTT, 12 to 15 ins.....	6.00	55.00	500.00
1000 Juniper, Pfitzer, TTT, 9 to 12 ins.....	4.70	45.00	420.00
1000 Juniper, Savin, TTT, 15 to 18 ins.....	8.50	75.00	650.00
6000 Juniper, Savin, TTT, 12 to 15 ins.....	5.50	50.00	450.00
4000 Juniper, Savin, TTT, 9 to 12 ins.....	4.50	40.00	350.00
1000 Juniper, Scopulorum (Silver Jun.), TTT, 2 to 3 ft.....	10.00	90.00	800.00
2000 Juniperus Virginiana (Neb. type), 2 to 3 ft.....	5.50	50.00	450.00
2500 Juniperus Virginiana (Neb. type), TTT, 18 to 24 ins.....	4.50	40.00	350.00
3000 Juniperus Virginiana (Neb. type), TTT, 12 to 18 ins.....	3.00	25.00	200.00
4000 Juniperus Virginiana (Neb. type), TTT, 9 to 12 ins.....	2.50	20.00	150.00
1000 Pine, Ponderosa, R.P., 18 to 24 ins.....	2.50	23.00	200.00
1500 Pine, Ponderosa, R.P., 12 to 18 ins.....	2.00	18.00	150.00
18,000 Pine, Ponderosa, R.P., 9 to 12 ins.....	1.80	15.00	120.00
10,000 Pine, Ponderosa, R.P., 6 to 9 ins.....	1.50	12.00	90.00
3000 Pine, Banksiana, R.P., 18 to 24 ins.....	1.80	15.00	120.00
2500 Pine, Banksiana, R.P., 12 to 18 ins.....	1.50	12.00	100.00
2000 Pine, Banksiana, R.P., 9 to 12 ins.....	1.20	10.00	80.00
5000 Pine, Sylvestris, R.P., 12 to 18 ins.....	2.20	20.00	180.00
11,000 Pine, Sylvestris, R.P., 9 to 12 ins.....	2.00	18.00	150.00
4000 Pine, Sylvestris, R.P., 6 to 9 ins.....	1.50	12.00	100.00

FIELD-GROWN GRAFTS

	Per 10	Per 100
1000 Juniper, Pathfinder, 18 to 24 ins., TTT, 2-yr., in field.....	\$13.00	\$120.00
1000 Juniper, Pathfinder, 12 to 18 ins., TTT, 1-yr., in field.....	9.00	85.00

THUJA OCCIDENTALIS COMPACTA ERECTA (NEW)

We offer this new variety in rooted cuttings; also established stock from 2 1/4-in. pots.

Write for descriptive folder in color.

THE WESTMINSTER NURSERIES
WESTMINSTER, MD.

TAXUS BREVIFOLIA

Finished stock. Come and see it. In lots of 25 to 100. For cash.

Each	
15 to 18 ins., B&B.....	\$3.50
18 to 24 ins., B&B.....	4.50

No shipping. Send your truck.

HUEBNER'S NURSERY

MONROE, N. Y.

Route 17 Orange County

Happy New Year

1949 was another
record-breaking
one for us.

Thanks for Your Patronage

Fairview Evergreen Nurseries
Fairview, Pa.

QUALITY MERCHANDISE AT REASONABLE PRICES

C. L. VANDERBROOK & SON
MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

Gilbert Gude, committee chairman, will report on farm tags for nurserymen's trucks.

After a banquet-luncheon, Dr. T. B. Symons, dean and director of agriculture, University of Maryland, will extend greetings to the association, visitors will be introduced and Dr. E. N. Cory, head of the department of entomology, will make the annual professional achievement award. Plans for a new greenhouse and horticultural building at the university are to be discussed by Dr. Ronald Bamford, associate dean of agriculture, and Dr. I. C. Haut, head of the department of horticulture.

An open forum on "Selling Nursery Stock" is scheduled for 2:15 p. m. Moderator will be Bernard J. Nees, chairman of the governing committee, Washington Stock Exchange, Washington, D. C. Guest speaker at the afternoon session will be Douglas Laird, vice-president of the National Securities & Reconstruction Corp., New York, whose subject will be "Getting Results—the Human Equation." Preceding the final business session and election of officers will be another discussion period. Patsy Donofrio, Carroll Gardens, Westminster, will lead the discussion on "Facts and Figures on Advertising"; Daniel B. Stoner, Westminster Nurseries, Westminster, on "Personal Contact Work," and Clarence W. Price, Towson Nurseries, Towson, on "Show Grounds."

WESTERN ASSOCIATION ANNOUNCES PROGRAM.

The call to order for the 2-day meeting of the Western Association of Nurserymen at the Hotel Muehlebach, Kansas City, Mo., will be given at 10 a. m. January 11. Following preliminary business, Evert Asjes, Jr., Rosehill Gardens, Kansas City, Mo., will show a movie which he took on "Propagation of Shrubs by Softwood Cuttings." Guest speaker at the morning session will be Edward Ronnau, vice-president and credit manager of the Cook Paint & Varnish Co., Kansas City, Mo., who is also director of the National Wholesale Credit Association.

The first half of the afternoon session will be given by officers of the American Association of Nurserymen. "The What and Why of the A. A. N." will be discussed by Richard P. White, Washington, D. C., executive secretary; James IE. Ilgenfritz, Monroe, Mich., president, and Wayne Ferris, Hampton, Ia., vice-president and executive committee-man for region IV. The second part of the program will be devoted to a

CUMBERLAND VALLEY NURSERIES, Inc.

Phone: 97-R

McMINNVILLE, TENN.

HIGH QUALITY

FRUIT TREES

PEACH, 1-yr.

	Each per 10	Each per 100	Each per 1000
1-in. and up, 7 ft. and up.....	\$0.35	\$0.30	\$0.25
11/16 to 1-in., 6 ft. and up.....	.30	.25	.22 1/2
9/16 to 11/16-in., 5 ft. and up.....	.25	.22 1/2	.20
7/16 to 9/16-in., 4 ft. end up.....	.20	.18	.17 1/2

Ambergem
Belle of Georgia
Champion
Dixiegem
Elberta
Early Elberta

Early Rose
Early Hiley
Florida Jewel
Golden Jubilee
Gemmer's Late Elberta

APPLE, 2-yr. branched

	Each per 10	Each per 100
11/16-in. and up, 4 1/2 ft. and up.....	\$0.35	\$0.30
9/16 to 11/16-in., 4 ft. and up.....	.30	.25
7/16 to 9/16-in., 3 ft. and up.....	.25	.22 1/2

Anoka
Baldwin
All-red McIntosh
All-red Spy
All-red Jonathan

Cortland
Dark Red Delicious
Yellow Delicious
Kendall
Grimes Golden

APRICOT, PLUM, DAMSON, NECTARINE

	Each per 10	Each per 100	Each per 1000
1-in. and up, 5 ft. and up.....	\$0.55	\$0.50	\$0.45
11/16 to 1-in., 4 1/2 ft. and up.....	.45	.40	.35
9/16 to 11/16-in., 4 ft. and up.....	.35	.30	.27 1/2
7/16 to 9/16-in., 3 ft. and up.....	.25	.22 1/2	...
5/16 to 7/16-in., 2 ft. and up.....	.20	.17 1/2	...
18 to 24 ins.....	.15	.12 1/2	...

Abundance Plum
Red June Plum
Bruce Plum
Wickson Plum
Shropshire Damson Plum
Methley Plum

Stanley Prune
Hunter Nectarine
Early Golden Apricot
Moorpark Apricot
Superb Apricot

WHITE-FLOWERING PEACH

	Each per 10	Each per 100
5 to 6 ft., well br.....	\$0.50	\$0.40
4 to 5 ft., well br.....	.40	.35
3 to 5 ft., well br.....	.35	.30

FLOWERING TREES

PEACH, June-budded

	Each per 10	Each per 100	Each per 1000
7/16 to 9/16-in., 3 ft. and up.....	\$0.20	\$0.18	\$0.15
5/16 to 7/16-in., 2 ft. and up.....	.15	.12 1/2	.10
18 to 24 ins.....	.10	.09	.08
12 to 18 ins.....	.08	.07	.06
6 to 12 ins.....	.07	.06	.05

Heath Cling
Hiley Belle
J. H. Hale
Halehaven
Mayflower
Rochester

Red Bird
Redhaven
Red Indian
Southland
Southhaven
Sullivan's Early Elberta

APPLE, 1-yr. whips

	Each per 10	Each per 100	Each per 1000
4 to 5 ft.....	\$0.25	\$0.22 1/2	\$0.20
3 to 4 ft.....	.20	.17 1/2	.15
2 to 3 ft.....	.15	.12 1/2	...

Lodi
M. B. Twig
Stayman Winesap
Red Rome Beauty

Turley Winesap
Yellow Horse
Yellow Transparent
York Imperial

FLOWERING CRAB

	Each per 10	Each per 100
11/16-in. and up, 5 to 6 ft.....	\$0.55	\$0.50
9/16 to 11/16-in., 4 to 5 ft.....	.50	.45
7/16 to 9/16-in., 3 to 4 ft.....	.40	.35

Floribunda

Eleyi

A Few Hundred KIEFFER PEAR—SHROPSHIRE DAMSON
3-yr.-old, 1 1/2 to 2 1/2-in. caliper, 90c each.

PINK-FLOWERING ALMOND

	Each per 10	Each per 100
3 to 4 ft., well br.....	\$0.45	\$0.40
2 to 3 ft., well br.....	.35	.30
18 to 24 ins., well br.....	.30	.25
12 to 18 ins., well br.....	.20	.15

talk entitled, "Today's World Demands Salesmanship," by C. W. Jones, supervisor of farm implements, deep freezers, nursery stock and allied lines for Sears Roebuck & Co., Chicago.

Nurserymen are invited to bring their families to the banquet at 7 p. m. Entertainment will be provided by Lou Kemper and Frank Wiziardi, of radio station KMBC, promoters of the program "Luncheon on the Plaza." Speaker of the evening will be Dr. H. T. M. Titesworth, curator of Wesley Gardens, London, England, who will talk on "Flora and Fauna of the British Isles."

The program for the concluding

LILACS

On own roots.
Large plants, 5 ft. and up.
Charles X, William Robinson,
Pres. Grevy, Leon Gambetta, etc.

To plant now
AMERICAN ARBORVITAE, 10 ft.
An assortment of heavy stock
for landscaping.

SAMUEL FRASER NURSERY, Geneseo, N. Y.

SHEPARD NURSERIES

Growers and Distributors of
ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

ILEX BULLATA

A very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.

4 to 6 ins., 2-yr. T. 10c ea.
Send for list of other unusual plants.
ALANWOLD NURSERY
NESHAMINY, Bucks Co., PA.

See our ad on Lining-out Stock on
page 20 of the December 1 issue.

PALLACK BROS. NURSERIES, Inc.
Wholesale growers of nursery stock.
Route 19, 31 miles north of Pittsburgh, Pa.
P. O., Harmony, Pa.

LINING-OUT STOCK

Spring, 1950

Write for Our Illustrated List

TRANSPLANTS

	Per 100	Per 1000
Irish Juniper, T-2, 12 to 18 ins., 10 or more, each \$0.40.....	.....	.....
Waukegan Juniper, T-2, 8 to 10 ins.....	\$20.00	.....
Creeping Savin Juniper, 2-2, 4 to 8 ins.....	15.00	.....
Green Barberry, 1-2, 6 to 12 ins.....	6.50	\$50.00
Green Barberry, 1-2, 12 to 18 ins.....	9.00	.....
Red Barberry, 1-2, 9 to 12 ins.....	7.50	66.50
Red Barberry, 1-2, 12 to 18 ins.....	10.00	.....

SEEDLINGS

Douglas Fir, 2-0, 4 to 8 ins.....	4.00	25.00
White Spruce, 3-0, 2 to 4 ins.....	4.00	22.50
White Spruce, 3-0, 4 to 6 ins.....	5.00	30.00
Black Hills Spruce, 3-0, 2 to 4 ins.....	4.00	22.50
Black Hills Spruce, 3-0, 4 to 6 ins.....	5.00	30.00
Dwarf Montana Mugho Pine, 2-0, 2 to 4 ins.....	3.00	25.00
Austrian Pine, 2-0.....	3.50	25.00
Green Barberry, 2-0, 6 to 12 ins., 2500 for \$20.00.....	.....	.....
White Pine, 2-0, 2 to 4 ins.....	3.50	28.00
Oriental Cedar, 2-0, 2 to 5 ins.....	3.00	15.00
Papyrifera Birch.....	7.50	50.00

Scotch Pine Seedlings

2-yr. stock from Danish seeds.

	Per 100	Per 1000	Per 5000	Per 10,000
Scotch Pine, 2-0, 1 to 3 ins.....	\$3.00	\$18.00	\$ 80.00	\$150.00
Scotch Pine, 2-0, 3 to 7 ins.....	4.50	24.00	105.00	200.00

Glad to mail sample.

Terms: Cash with order, please, or 25 per cent with order and balance March 1. Packing included in price; shipment by express, collect.

25 at 100 rate; 250 at 1000 rate; will quote on 5000 or over.

E. C. MATTHEWS

HARBOR SPRINGS, MICH.

FOR 52 YEARS

Our business has been
growing

Rhododendrons
Azaleas
Perennials, Roses
All Nursery Items

BOBBINK & ATKINS

E. RUTHERFORD, N. J.

HEMLOCK

Rhododendron — Kalmia
Azalea

CURTIS NURSERIES

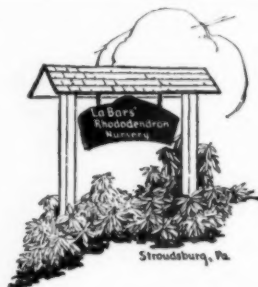
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If you have not received a copy of our Fall, 1949, price list and are interested, send for same.

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WILLIAM CROSBY HORSFORD
Charlotte, Vermont

POTTED LINERS

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(Beetle Certified)

HEASLEY'S NURSERIES

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ROSA MULTIFLORA JAPONICA

Excellent stock

Row-run, \$18.00 per 1000

Sample for \$2.00

BROOKVILLE NURSERIES
GLEN HEAD, N. Y.

session the next morning will be devoted to landscape subjects. Laurence G. Holmes, White Elm Nursery Co., Hartland, Wis., will discuss "What About Those Foundations?" under the auspices of the National Landscape Nurserymen's Association. George Fisher, Kansas Landscape & Nursery Co., Salina, Kan., will speak on "Landscape Planning Costs." A business meeting with election of officers will bring the meeting to a close by noon.

IOWA PROGRAM.

Preceding the convention of the Iowa Nurserymen's Association January 13 and 14 at the Hotel Kirkwood, Des Moines, will be a meeting of the retail and landscape nurserymen of the state at 2:30 p. m. January 12 and a meeting of the Iowa chapter of the American Association of Nurserymen at 10:30 a. m. January 13.

The state convention will be opened by President Harold J. Parnham at 1:30 p. m. January 13. H. M. Harris, state entomologist, will report on the work of his office. John Wight, Wight Nurseries, Cairo, Ga., will speak on "Selling Nursery Stock," and J. A. Foret, department of horticulture, Iowa State College, Ames, will give a preliminary report on research at the college.

The annual banquet and floor show will be held that evening, and the featured speaker will be the president of the American Association of Nurserymen, James I. E. Ilgenfritz, Monroe, Mich.

The concluding session will be held the next morning at 9 o'clock when the executive secretary of the A. A. N., Richard P. White, will be present from Washington, D. C., and the public relations counsel of the A. A. N., from New York, to report on activities of the national association. Prof. Roy E. Marshall, department of agriculture, Michigan State College, East Lansing, will speak on "Building Nursery Storages." A business meeting and election of officers will complete the agenda.

N. L. N. A. PROGRAMS AT THREE CONVENTIONS.

Members of the National Landscape Nurserymen's Association will conduct regional landscape meetings at three of the big midwinter nurserymen's conventions. The N. L. N. A. has a half-day program January 5 during the convention of eastern regional nurserymen January 4 to 6 at the Hotel Statler, New York; a portion of the program during the meeting of the Western Association of Nurs-

GRAFTED STOCK For Spring, 1950, Delivery

	Per 10	Per 100		Per 10	Per 100
<i>Acer palmatum atropurpureum</i>	\$7.00	\$65.00	<i>Juniperus virginiana elegantissima</i> ..	\$5.00	\$45.00
<i>Acer palmatum dissectum</i>			<i>Juniperus virginiana glauca</i>	5.00	45.00
<i>atropurpureum</i>	7.00	65.00	<i>Juniperus virginiana globosa</i>	5.00	45.00
<i>Cornus florida alba plena</i>	5.00	45.00	<i>Juniperus virginiana kosteriana</i>	5.00	45.00
<i>Cornus florida rubra</i>	5.00	45.00	<i>Juniperus virginiana schottii</i>	5.00	45.00
<i>Cornus florida rubra Prosser</i>	7.00	65.00	<i>Juniperus virginiana pyramidaformis</i>		
<i>Fagus sylvatica riversi</i>	7.00	65.00	<i>hillii</i>	5.00	45.00
<i>Ilex opaca femina</i>	5.00	45.00	<i>Juniperus sabina Von Ehron</i>	5.00	45.00
<i>Juniperus chinensis columnaris glauca</i>	5.00	45.00	<i>Magnolia lennei</i>	7.00	65.00
<i>Juniperus chinensis columnaris viridis</i> ..	5.00	45.00	<i>Magnolia soulangeana</i>	6.50	60.00
<i>Juniperus chinensis keteleeri</i>	5.00	45.00	<i>Magnolia soulangeana nigra</i>	6.50	60.00
<i>Juniperus chinensis neaboriensis</i>	5.00	45.00	<i>Magnolia stellata</i>	6.50	60.00
<i>Juniperus chinensis sargentii</i>	5.00	45.00	<i>Magnolia stellata, Water Lily</i>	6.50	60.00
<i>Juniperus chinensis sargentii glauca</i> ..	5.00	45.00	<i>Magnolia rustica rubra</i>	7.00	65.00
<i>Juniperus chinensis meyeri</i>	5.00	45.00	<i>Tsuga canadensis pendula</i>	5.50	50.00
<i>Juniperus virginiana burki</i>	5.00	45.00	<i>Tsuga canadensis pendula, 1-yr. grafts</i>	7.00	65.00
<i>Juniperus virginiana canaerti</i>	5.00	45.00			

All the above shipped from 2 1/4-inch rose pots.

Prices are F.O.B. Mountain View, N. J., packing additional at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

HESS' NURSERIES

MOUNTAIN VIEW, N. J.

crymen, January 11 and 12 at the Hotel Muchlebach, Kansas City, Mo., and a full-day's meeting January 16 at the Hotel La Salle, Chicago, preceding the convention of the Illinois State Nurserymen's Association there.

The program at New York is under the leadership of Homer K. Dodge, Landscape Service Co., Framingham, Mass., executive committeeman for region I of the N. L. N. A. Included will be a talk on "Climate Control Through Planting," by Joseph E. Howland, garden editor of House Beautiful magazine, New York; a panel on "How to Sell a Big Landscape Job," with Mr. Dodge as moderator, assisted by Howard C. Taylor, Rosedale Nurseries, East View, N. Y., and William Howe, Howe Nurseries, Pennington, N. J., and other landscape nurserymen, and a talk entitled "The Quest for Twenty Per Cent," by Harold Seyler, Farr Nursery Co., Weiser Park, Pa.

For the first time, a portion of the program of the Western Association of Nurserymen will be given over to the N. L. N. A. The executive committeeman for region IV, Vaughan Woodard, Neosho Nurseries Co., Neosho, Mo., will be in charge of the program at Kansas City. It will feature N. L. N. A. President Vernon Marshall, Marshall Nurseries, Arling-



20 MILLION TREES A YEAR

The above picture shows a section of Musser Nursery No. 2. Write for complete catalog on Evergreen seedlings and transplants, also Hardwood seedlings.

MUSSER FORESTS, Inc. INDIANA, PENNA.

EUONYMUS RADICANS VEGETUS FOR LINING-OUT

1-yr., 2 1/2-in. pot plants, 6 to 8 ins., tops.

Ready for shipment now or in the spring.

\$17.50 per 100

\$150.00 per 1000

F.O.B. Fairport, N. Y.

JAMES I. GEORGE & SON

FAIRPORT, N. Y.

Again

We offer for Spring 1950
50,000 Juniperus Grafts

(Grafted on Red Cedar)

ORDER NOW

before certain kinds are sold out.

It's quality that counts.

Per 100 Per 1000

Juniperus chinensis

columnaris glauca	\$47.50	\$450.00
keteleeri	47.50	450.00
compacta	47.50	450.00
mascula	47.50	450.00
pyramidalis	47.50	450.00

Juniperus virginiana

burki	47.50	450.00
canaerti	47.50	450.00
canaerti compacta	47.50	450.00
elegantissima Lee	47.50	450.00
glauca	47.50	450.00
schottii	47.50	450.00
pyramidalis hillii	47.50	450.00

Juniperus squamata

meyeri	47.50	450.00
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Biota aurea nana

compacta	45.00	425.00
----------	-------	--------

Biota

conspicua	45.00	425.00
-----------	-------	--------

Picea pungens

moerheimii	95.00
------------	-------	-------

Acer polymorphum

ashi-beni (the best red)	90.00
--------------------------	-------	-------

Out of Pots and Beds

2000 Juniper, Pfizer,	Per 100	Per 1000
8 to 10 ins., 1-yr.,		
2 1/2-in. pots	\$27.50	\$250.00
1000 Juniper, Pfizer,		
8 to 12 ins., strong,		
out of beds	42.50	400.00
1000 Taxus hicksi, 12 to		
18 ins., strong,		
3-yr. beds	45.00	450.00
1000 Arborvitae, pyra-		
midalis, 6 to 8 ins.,		
2 1/2-in. pots, out		
of frame	25.00	.....

**PAUL OFFENBERG
NURSERIES**

COLUMBUS 9, OHIO

ton, Neb., in a talk on "What Is the N. L. N. A?" Laurence G. Holmes, White Elm Nursery, Hartland, Wis., will answer the question "What About Those Foundations?" and Charles Williams, Williams & Harvey Nurseries, Kansas City, will show a film on "Big Tree Moving."

As has been its custom for several years, the N. L. N. A. will hold its annual one-day winter meeting at Chicago. This year the program will be under the direction of Laurence Holmes, executive committeeman for region III. At the morning session there will be a report on "The N. L. N. A. Work Program to Date," by President Marshall; a talk entitled "Does Advertising Pay?", by Hal Wagner, Local Loan Corp., Chicago, and a discussion of the promotional booklet "Small Home Plantings," led by committee chairman, Louis Hillenmeyer, Jr., Hillenmeyer Nurseries, Lexington, Ky.

At the afternoon session William A. Natorp, W. A. Natorp Co., Cincinnati, O., will tell "How to Increase Sales with Our Salesmen"; Homer K. Dodge, chairman of the educational committee, will report on the response of educational institutions to "A Training Program for Landscape Nurserymen," and Mr. Holmes will speak on "Modern Plants for Modern Gardens."

ILLINOIS ADVANCE REGISTRATION PLAN.

To facilitate registration for the convention of the Illinois State Nurserymen's Association, to be held January 17 to 19 at the Hotel La Salle, Chicago, an advance registration plan is being tried by the association for the first time. Using this method, nurserymen may send money for registration now to the secretary, Miles W. Bryant, Illinois State Nurserymen's Association, Princeton, Ill., and then badge and tickets will be ready for quick pickup at the registration desk at the convention.

Two types of registration are offered. One is a complete all-cost registration at \$10, which includes the badge necessary for admittance to meetings, tickets for the luncheons January 18 and 19 and for the banquet the evening of January 18. The other is an item-by-item registration whereby one may purchase separate tickets for only the events one wishes to attend. The admission badge for meetings is \$3; the luncheon tickets are \$3 each, and the banquet ticket is \$6.

Since several nurserymen's organizations will meet January 16 at the Hotel La Salle, the day preceding the

PFITZER JUNIPER LINERS

5 to 8 ins., in plant bands for field planting.

Will outperform much larger bare-root plants and cost you less money.

Book your order
for spring.

Immediate or later delivery if wanted.

We winter everything in the greenhouse.

300 or more,
\$13.50 per 100.
Less than 300,
\$15.00 per 100.

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LAKE'S
SHENANDOAH NURSERIES
Shenandoah, Iowa.

Wholesale growers of
a fine assortment of
GENERAL NURSERY STOCK

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Box 25 NEW LONDON, CONN.

Pronouncing Dictionary
of Plant Names and Botanical Terms

64 pages, 3000 names, **25c** per copy

AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

We want to take this opportunity to thank all our old and new customers for the valued business you have given us throughout the year, and to pledge our efforts to serve you in the future.

HAPPY NEW YEAR TO ALL



LEGHORN'S EVERGREEN NURSERIES
GEER STREET CROMWELL, CONN.

formal opening of the Illinois convention, the registration desk will be opened that day, a day earlier than usual, so that as many as possible may register before the formal opening of the convention program.

ILLINOIS PROGRAM.

The 3-day convention of the Illinois State Nurserymen's Association, to be held January 17 to 19 at the Hotel La Salle, Chicago, will open Tuesday afternoon at 1:30 in the Illinois room with the address of President Roy F. Clavey. Both the president and the executive secretary of the American Association of Nurserymen will be present, and the former, James I.E. Ilgenfritz, Monroe, Mich., will speak on "The American Association of Nurserymen: Its Purposes and Values," while the latter, Richard P. White, Washington, D. C., will speak on "Activities of the American Association of Nurserymen for 1950." To complete the afternoon's program, Dr. Donald Wyman, Arnold Arboretum, Jamaica Plain, Mass., will give an illustrated talk on "The Best of the Lilacs and Flowering Crab Apples."

Wednesday morning will be left free for nurserymen to buy and sell stock, and the program will be re-



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Shade and Ornamental Trees, Shrubs, Vines, Evergreens, Hedge Plants, Ground Covers, Azaleas, Broad-leaved Evergreens, Magnolias, Pyracantha, Japanese Maples, Multiflora Roses, Fruit Trees and many scarce and hard-to-find items.

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ROSEBUSHES

Licensed Grower,
 All-America
 Introductions.

Refrigeration.

AVOID HEELYARD HAVOC.

"True Varieties" Is Not a Boast... It's A HABIT!

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PECAN TREES

WALNUT, FIG

PERSIMMON

Wholesale Catalog.

GET YOURS FIELD-FRESH AND FREEZE-FREE.

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NEOSHO NURSERIES CO.

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General line of

Fruit and Ornamental Trees

Ask to see our 64-page
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We can supply any
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one thousand.

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COLORADO BLUE SPRUCE

in sizes 3 to 6 feet

Grown in the Far North

ANTIGO EVER-GREEN
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SPECIMEN LANDSCAPE MATERIALS

Our Specialty

TAXUS

W. A. NATORP CO.
Cincinnati 29, Ohio

CHINESE CHESTNUT TREES
Blight-resistant.
TREES—TRANSPLANTS—LINERS
THE GOLD CHESTNUT NURSERY
Cowen, W. Va.

sumed at 12:15 p. m. with a luncheon in the Illinois room. The luncheon speaker will be Dr. Wendell H. Camp, curator of experimental botany, Academy of Natural Sciences of Philadelphia, who will talk on "The Horticultural Plant as a Biological Object." Afterward, Dr. Joseph E. Howland, garden editor of House Beautiful, New York, will discuss "Climate Control as a Selling Point for Nurserymen." The concluding feature will be the premier showing of a new time-lapse film by John Nash Ott, Jr., Winnetka, entitled "Our Changing World," which will show the development of successively higher forms of plant life and the effect of geological phenomena on such development.

The banquet will be held in the Grand ballroom on the nineteenth floor at 7 o'clock Wednesday evening following a cocktail hour.

The Thursday morning session, to be held in parlor D, starting at 9:30, will be the association's annual business meeting and will be for members only.

There will be another luncheon at 12:15 p. m. Thursday in the Illinois room for which the speaker will be announced later. Afterward the annual meeting of the Illinois chapter of the American Association of Nurserymen will be held.

IDAHO MEETING AND LANDSCAPE SCHOOL.

The 3-day meeting of the Idaho Nurserymen's Association, January 16 to 18 at the Boise hotel, Boise, will be a combined business meeting and landscape school. Speakers for the program are being obtained with the assistance of A. S. ("Tony") Horn, state extension horticulturist, Boise, and other members of the Idaho agricultural extension department. Local garden clubs are being invited to attend the school.

The program will open Monday morning at 9:30 and will be devoted to a talk on "The Principles of Landscape Design" by O. B. Howell, garden editor of the Spokane Review, Spokane, Wash. After luncheon Mrs. Claude Shields will discuss "Roses in the Landscape," and rose films will be shown by Jackson & Perkins Co. and Texas rose growers. A film "Springtime in Holland" will be shown in the evening, through the courtesy of bulb growers in Holland.

The program will be resumed Tuesday morning with talks on "Garden Soils and Fertilizers" by Vance Smith, extension service, and "How to Plant and Prune" by John



Growers of a complete
line of deciduous and
coniferous species.

JEWELL NURSERIES, INC.
Lake City, Minn.

Northern-grown Stock

Send
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Price
List.

J. V. BAILEY NURSERIES
St. Paul 6, Minn.

ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

BRYANT'S NURSERIES
Princeton, Illinois

	Per 100
Kolkwitzia, T, 9 to 12 ins.....	\$12.00
Kolkwitzia, S, 6 to 9 ins.....	9.00
Rhus cotinus, S, 3 to 6 ins.....	6.00
Rhodotypos, S, 3 to 6 ins.....	3.50

NEWPORT NURSERY CO.
NEWPORT, MICH.

Old English BOXWOOD

(Wholesale Only)

SELLING OUT. Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS
Mrs. R. P. Royer High Point, N. C.

MICHIGAN-GROWN FRUIT TREES

The following list of well grown, quality Fruit Trees is offered to the wholesale trade.

APPLE TREES	Per 100	Per 1000
11/16-in. and up.....	\$40.00	....
9/16-in. and up.....	35.00	....
11/16-in. 9/16-in.		

Anoka	39	15
Baldwin	43	7
Duchess	81	20
Golden Delicious	151	20
Golden Russet	29	10
Grimes Golden	115	27
Fameuse Snow	55	31
Hyslop Crab	104	29
Jonathan	173	124
McIntosh	207	131
Northern Spy	94	13
Red Astrachan	61	34
Red Delicious	242	90
Red Spy	111	77
Rome Beauty	17	13

PEAR TREES	Per 100	Per 1000
11/16-in. and up.....	\$65.00	\$600.00
9/16-in. and up.....	50.00	450.00
7/16-in. and up.....	45.00	400.00
11/16-in. 9/16-in. 7/16-in.		

Bartlett	335	229	90
Bosc	35	56	24
Clairegeau	13	10	7
Clapp Favorite	155	100	66
Conference	30	22	13
Duchess	113	38	9
Flemish Beauty	124	42	26
Kieffer	160	100	46
Lincoln	68	44	30
Sackel	139	62	22
Sheldon	113	31	11

PEACH TREES	Per 100	Per 1000
1-in. and up.....	\$60.00	\$500.00
11/16-in. and up.....	45.00	400.00
9/16-in. and up.....	35.00	300.00
7/16-in. and up.....	25.00	200.00
11/16- 9/16- 7/16-		

		11/16-	9/16-	7/16-
	l-in.	in.	in.	in.
Arp Beauty ..	12	120	110	75
Champion ..	65	212	84	18
Early Elberta ..	55	570	666	305
July Elberta ..	55	200	200	224
Elberta	170	1080	950	440
Fertile Hale ..	10	159	158	103
Fairhaven ..	45	270	260	180
Halehaven ..	120	1240	1084	404
J. H. Hale ..	45	477	270	125
Redhaven ..	220	1109	466	150
Rochester ..	44	347	233	190
Southhaven ..	49	120	66	20
Sunglow ..	22	142	104	18

Golden				
Jubilee ...	172	880	430	156
Red-flowering				
Peach			123	90
White-flowering				
Peach		104	90	30

APRICOT TREES		Per 100	Per 1000
1 to 1 1/4-in. and up....	\$75.00		....
1 1/16-in. and up.....	65.00		....
9/16-in. and up.....	50.00		....
1 to 1 1/4-in. 1 1/16-in. 9/16-in.			
Early Golden	55	47	18
Moorpark	55	58	

PLUM TREES	Per 100	Per 1000
1 to 1 1/4-in. and up.....	\$65.00	\$600.00
11/16-in. and up.....	50.00	450.00
9/16-in. and up.....	45.00	400.00
1 to 1 1/4-in. 11/16-in. 9/16-in.		

Abundance	75	11	..
Bradshaw	33	90	20
Burbank	200	70	9
Chief Pontiac	47	32	4
German Prune	17	74	28
Grand Duke	10	68	25
Green Gage	43	94	11
Monarch	52	120	19
Lombard	112	181	30
Shropshire Damson	25	148	32
Stanley Prune	56	188	39
Yellow Egg	65	57	..

CHERRY TREES	Per 100	Per 1000
1 to 1 1/4-in. and up.....	\$90.00	\$850.00
1 1/16-in. and up.....	80.00	650.00
9/16-in. and up.....	60.00	500.00
1 to 1 1/4-in. 1 1/16-in. 9/16-in.		
Montmorency	750	900 400
Early Richmond	150	100 ...

Cherry Trees have been certified free from virus disease by the Michigan Department of Agriculture, and all stock has been inspected and carries a certificate from the State of Michigan.

Please make your reservations at once so that your order can be reserved and shipped when you want it.

Usual terms to firms with established credit. Otherwise, cash with order.

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Romeo, Mich.

Jensen, Jr., Petrie Landscape Nursery, Boise. After luncheon, a Boise landscape architect, Joe Dominick, will discuss "Trees: Their Place in Landscaping," and Dave Petrie, Petrie Landscape Nursery, Boise, will speak on "Gardening with Shrubs." A film entitled "Life in Eighteenth Century, Williamsburg, Va.," will be shown in the evening.

To open the program Wednesday morning, Warren Carnefix, Fruitland Nurseries, Fruitland, will discuss "Evergreen Material." Sidney A. Nelson, Nelson Floral & Nursery, Boise, will talk on "Perennials for Seasonal Color." In the afternoon, Gerald Enders, Gipson Nursery, Boise, will talk on "Garden Structures and Furniture." Roland Portman, state entomologist, will discuss "Bugs We All Should Know, and Their Control," and A. S. Horn, extension horticulturist, "Diseases We All Should Know, and Their Control."

VIRGINIA PLANS.

In the belief that its members are interested in national economic conditions, the program committee of the Virginia Nurserymen's Association is planning a program different from its usual for the meeting January 29 to 31 at the Hotel John Marshall,

ELMS

Moline.	Each
6 to 8 ft.....	\$0.95
8 to 10 ft.....	1.20
Vase.	
6 to 8 ft.....	.90
8 to 10 ft.....	1.15

FLOWERING CRABS

Ioensis, Atrorubra, Floribunda, Coronaria, Scheideckeri, Hopa.	Each
4 to 5 ft.....	\$0.80
5 to 6 ft.....	1.00
Bechtels	
3 to 4 ft.....	1.25
Klehmi	
4 to 5 ft.....	1.25

FRUIT TREES

APPLE	PEAR
Golden Russet, Jonathan, Wealthy, Early Harvest, Duchess of Oldenburg, Northwestern Greening.	Bartlett, Clapp's Favorite, Duchess, Flemish Beauty.
Each	Each
1 -in.....	\$0.75
1 1/4-in.....	1.00
1 to 1 1/4-in.....	\$1.25

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BOX 1

Nurseries

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TAXUS MEDIA HALLORAN

The past winter proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

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NEW LONDON, CONN.

ROSE BUSHES



Here in Tyler some 50 Rose Growers are cooperating together to give you the finest of all field grown roses. We grow what we sell—We sell what we advertise. Write us for prices, Box 808, Tyler, Texas.

CO-OPERATIVE ROSE GROWERS

EUONYMUS VEGETUS

2 1/4-in. pots

\$20.00 per 10

\$15.00 per 100

Trade list on request.

THE COTTAGE GARDENSN.I.W. Kriek
LANSING 15, MICH.**CHINESE ELMS**

		Per 1000
1-yr. seedlings		
6 to 12 ins.		\$ 6.00
12 to 18 ins.		10.50
18 to 24 ins.		15.00
2-yr. seedlings		
12 to 18 ins.		12.00
18 to 24 ins.		17.00
2 to 3 ft.		25.00
3 to 4 ft.		40.00

MAPLE

(Acer Saccharinum)

1-yr. seedlings		
6 to 12 ins.		9.00
12 to 18 ins.		13.50
18 to 24 ins.		21.00

RED OSIER DOGWOOD

6 to 12 ins.	18.75
12 to 18 ins.	32.50

AMERICAN ELM

6 to 12 ins.	5.25
12 to 18 ins.	9.00

Packing extra at cost.
F.O.B. Manhattan, Kan.**PIPER-FILBY NURSERY**

426 KEARNEY MANHATTAN, KAN.

THORNLESS HONEY LOCUST

	Per 10	Per 100
6 to 8 ft.	\$15.00	\$135.00
8 to 10 ft.	17.50	150.00
1 1/4 to 1 1/2-in. cal.	22.50	200.00

HACKBERRY, OCCIDENTALIS

6 to 8 ft.	12.50	100.00
8 to 10 ft.	15.00	135.00
1 1/4 to 1 1/2-in. cal.	20.00	175.00

Free packing. Cash, please.

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CATALOG you cannot afford
to be without.**WONDERLAND NURSERIES**
Ellerson, Va.**AMERICA'S BEST SOURCE**
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OHIO

Wayside Gardens

Richmond. John O. Williams, of John O. Williams Nursery, Richmond, is chairman of the program committee.

The entire program is to be devoted to the ways of putting an end to extravagance and the enlargement of government bureaucracy. Virginia's Senator Harry F. Byrd will be the banquet speaker, and Phillip M. McKenna will be keynoter. Other timely messages will be presented by Dr. Edward Grant and State Senator Edmond Massie.

Registration will start Sunday afternoon, and nurserymen in the Richmond area are planning a buffet supper for that night. Music and a get-together party will follow.

Exhibits of nursery stock, supplies and equipment will be an important part of the convention. Exhibit space is still available, and firms interested in having displays should write the exhibit chairman, Sam Tankard, Tankard Nurseries, Exmore, or his cochairman, David Laird, Laird's Nurseries, Richmond.

A landscape short course for Virginia nurserymen is being planned by the department of horticulture at Virginia Polytechnic Institute, Blacksburg, for February 27 to March 10. Open to nurserymen and their employees, the course will emphasize landscaping. Subjects to be taught will include landscape presentation, landscape design, planting design and engineering details.

**OHIO SHORT COURSE
PROGRAM COMPLETED.**

The program for the twenty-first annual short course for arborists, landscape gardeners and nurserymen, to be held January 23 to 25 at the Neil House, Columbus, O., has been arranged by the department of horticulture, Ohio State University, and the program for arborists also has been planned with the help of the Ohio chapter of the National Shade Tree Conference.

The first day of the 3-day short course will be devoted to arborists, the second to landscape gardeners and the third to nurserymen. The program for each day is as follows:

Arborists' Day.

JANUARY 23, 10:00 A. M.

"Liquid Fertilization of Shade Trees," the scientific approach, by D. C. Kiplinger, department of horticulture, Ohio State University; the arborist's conception and practice, by Norman Armstrong, White Plains, N. Y.

"Experiences with Summer Transplanting of Shade Trees," by Theodore F. Mathieu, school of arboriculture, University of Massachusetts, Amherst.

JANUARY 23, 1:30 P. M.

"Prevention of Fruit Set on Some Orna-

WE HAVE IN QUANTITY

Apple, 2 and 3-yr.
Pear, 2 and 3-yr.
Cherry, 1 and 2-yr.
Plum, 1 and 2-yr.
Apricot, 1 and 2-yr.
Peach, 1-yr.

ThurLOW Weeping Willow,
5 to 6 ft., up to 2-in.

Lombardy Poplar, 5 to 6 ft., up to 2-in.

Arborvitae, Pyramidal; Juniperus columnaris, glauca, keteleeri, Hill's Dundee, up to 3 1/2 to 4 ft. Pfizer Juniper, 15 to 18 and 18 to 24 ins. Austrian and Scotch Pine, heavily sheared, 4 to 5, 5 to 6 and 6 to 7 ft.

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BRIDGEPORT, IND.**Let SHERMAN'S supply
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New—Fragrant—Hardy

Pinkish-white flowers in May

Heavy pot-grown stock for lining out. Spring, 1950, delivery.

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2 1/2-in. bands \$27.50 \$250.00
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RED, BLACK and PURPLE RASPBERRIES
BLACKBERRIES—BOYSENBERRIES—BLUEBERRIES
CURRANTS—GOOSEBERRIES—GRAPEVINES
NEW VALENTINE ALL-RED RHUBARB
PARADISE ASPARAGUS—VICTORIA RHUBARB

ORNAMENTAL SHRUBS

Here are a few Special Items

Buddleia (in variety), 2 to 3 ft.	Magnolia Soulangeana Nigra
Hamamelis Vernalis, 4 to 5 ft.	Moss Balls, 3 to 4, 4 to 5 ft.
Prunus Tomentosa, 3 to 4 ft.	LINING-OUT STOCK
Spiraea Prunifolia, 3 to 4 ft.	Calycanthus Floridus,
Spiraea Vanhouttei, 2 to 3,	S, 6 to 9, 9 to 12 ins.
3 to 4, 4 to 4 1/2 ft.	Kolkwitzia Amabilis,
	T, 9 to 12, 12 to 15 ins.
	Rhus Cotinus, S, 6 to 9 ins.

FRUIT TREES

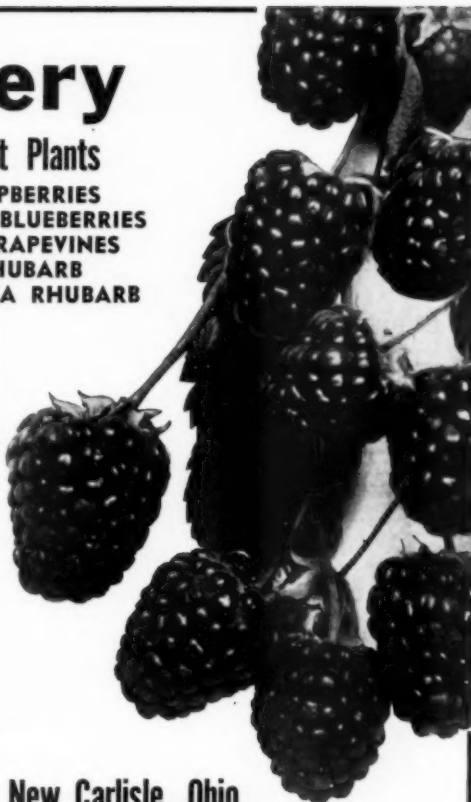
Well Grown—Heavily Rooted

	11/16-in.	9/16-in.	7/16-in.
Plum, 2-yr. (assorted varieties).....	\$60.00	\$45.00	\$35.00
Sweet Cherry, 1-yr. (assorted varieties)		75.00	60.00
Pear, 2-yr. (assorted varieties).....	50.00	40.00	30.00

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W. N. SCARFF'S SONS

New Carlisle, Ohio



mental Trees," by Richard Miller, Boulevard Gardens, Columbus.

"Insects and Diseases of Elms and Oaks," —"Some Troublesome Insects and Their Control," by Dr. George S. Langford, department of entomology, University of Maryland, College Park; "Decays and Some Other Diseases," by R. R. Hirt, New York State College of Forestry, Syracuse.

"Leaf Diseases—Parasitic and Nonparasitic," by Forrest C. Strong, department of botany, Michigan State College, East Lansing.

Arboriculture clinic, under the direction of Paul E. Tilford, executive secretary, National Arborists Association, Wooster.

JANUARY 23, 6:30 P. M.

Dinner, Neil House.

Panel discussion on "Ornamental Trees—Adaptability to City Conditions," led by Edward H. Scanlon, commissioner, division of shade trees, Cleveland, assisted by L. C. Chadwick, department of horticulture, Ohio State University; Carl Fenner, city forester, Lansing, Mich.; J. C. Kenealy, Lower Marion Township shade tree commission, Ardmore, Pa., and J. A. Sweeney, city forester, Toledo.

Business meeting, Ohio chapter, National Shade Tree Conference.

Landscape Gardeners' Day.

JANUARY 24, 9:45 A. M.

"Have You Tried These Herbaceous Plants?", by Victor H. Ries, department of horticulture, Ohio State University.

"Rhododendrons and Azaleas," by Henry T. Skinner, curator, Morris Arboretum, Philadelphia.

"Some Problems in the Establishment and Maintenance of Turf," by Harold W.

SPRING IS COMING!

Time flies after January first and Spring shipping time always comes early. To avoid disappointment and to be sure of the best, place your order NOW for

VIRGINIA SEASIDE ROSES

Our roses are strong, vigorous and extra well rooted, sure to grow and give your customers complete satisfaction. Our list is most complete and includes many patent varieties. Roses are scarce; send us your order TODAY.

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TAXUS - ARBORVITAE

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WE OFFER FOR SPRING, 1950 NATIVE STOCK

AZALEA CALEDULACEA.

AZALEA NUDIFLORA.

	Per 100	Per 1000
12 to 18 ins., liners.....	\$ 7.50	\$ 60.00
12 to 18 ins., branched, with bloom buds.....	12.50	100.00
18 to 24 ins., branched, with bloom buds.....	15.00	125.00
1 to 2 ft., balled and burlapped.....	75.00	700.00
2 to 3 ft., balled and burlapped.....	90.00	800.00

KALMIA LATIFOLIA.

2 to 3 ft., balled and burlapped.....	125.00	.....
3 to 4 ft., balled and burlapped.....	175.00	.....

TULIP TREE, bare roots.

5 to 6 ft., well branched.....	60.00	500.00
6 to 8 ft., well branched.....	80.00	700.00

CORNUS FLORIDA, bare roots.

5 to 6 ft., well branched.....	60.00	500.00
6 to 8 ft., well branched.....	90.00	800.00

CERCIS CANADENSIS, bare roots.

5 to 6 ft., well branched.....	50.00	400.00
6 to 8 ft., well branched.....	75.00	700.00

LONICERA HALIANA.

Liners.....	1.50	9.00
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VINCA MINOR.

Liners.....	1.50	9.00
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Please note that we can make delivery by truckload lots to all parts of the country at 20c per mile, both ways. Send your orders early as all orders are filled in rotation. All stock is offered subject to market changes and supply being exhausted or being destroyed by agencies of nature beyond our control. Prices are F.O.B. McMinnville, and are subject to change without notice. If you wish terms we will be glad to arrange this with you by letter.

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ORNAMENTAL SHRUBS
SHADE TREES, VINES
FOREST TREE SEEDLINGS
LINING-OUT STOCKS

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THE CENTER OF THE SOUTH

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Ornamental Evergreens,
Deciduous Trees
Shrubs and Roses

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We are grafting *Juniperus virginiana* canaerti, glauca, pyramidiformis (Dundee), burki and keteleeri. Grafts, 40c, packing at cost.

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Lining-out Stock a Specialty

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EVERGREENS, SHRUB LINERS.

RARE ITEMS YOU DO NOT FIND IN MOST LISTS!

Write!
HILLTOP NURSERIES
CASTOWN, OHIO

Glissmann, superintendent of grounds, Father Flanagan's Boys Home, Boys Town, Neb.

JANUARY 24, 1:30 P. M.

"Design for the Small Home Site," by Carl Ray, Carl Ray Co., St. Matthews, Ky.

"Landscaping the Ranch Type House," by L. R. Quinlan, department of horticulture, Kansas State College, Manhattan.

Landscape clinic, under direction of Victor H. Ries, department of horticulture, Ohio State University.

JANUARY 24, 7:30 P. M.

"Some New or Preferred Varieties of Trees and Shrubs," by Henry T. Skinner, curator, Morris Arboretum, Philadelphia.

Nurserymen's Day.

JANUARY 25, 9:45 A. M.

"The Importance and Interpretation of Soil Tests," by Ray Hasek, department of horticulture, Ohio State University.

"Cleaning and Processing Seeds of Nursery Plants," by B. C. Smith, department of horticulture, Ohio State University.

"Construction and Management of Storages for Nursery Stock," by J. H. L. Truscott, horticultural experiment station, Vineland Station, Ont., Canada.

JANUARY 25, 1:30 P. M.

"Report on Some Nursery Research Problems at Ohio State University," by Alex Laurie and L. C. Chadwick, department of horticulture, Ohio State University.

"Investigations of Nursery Insects During 1949," by R. B. Neiswander, department of entomology, Ohio agricultural experiment station, Wooster.

"Propagation Practices," by James S. Wells, manager, Koster Nursery, Bridgeport, N. J.

Nursery clinic, under direction of L. C. Chadwick, department of horticulture, Ohio State University.

NEW ENGLAND AND MASSACHUSETTS PLANS.

The Massachusetts Nurserymen's Association will meet February 7 at the Hotel Kenmore, Boston, from 10 a. m. to 3 p. m. Immediately upon adjournment of that meeting the New England Nurserymen's Association will open its annual convention at the same place and will continue its sessions through February 9. Keynote speaker at a luncheon planned for members of both groups February 7 will be Richard P. White, executive secretary of the American Association of Nurserymen, Washington, D. C.

February 8 will be the New England association's annual educational day, and again the program will be under the direction of Willard Bond, Bay State Nurseries, Inc., North Abington, Mass. Members are urged to bring employees to this session, as the information presented always proves of practical benefit, and employees as well as employers are given opportunity to voice their opinions on problems discussed. Non-members will be admitted to this session for a fee of \$2. Some of the

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SMALL FRUITS

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GRAPES			
	Per 100	Per 1000	
Concord, 2-1	\$10.00	\$ 80.00	
Concord, 1-1	8.00	60.00	
Niagara, 2-1	11.00	90.00	
Niagara, 1-1	9.00	70.00	
Catawba, 2-1	11.00	90.00	
Catawba, 1-1	9.00	70.00	
Fredonia, 2-1	11.00	90.00	
Fredonia, 1-1	9.00	70.00	
Delaware, 2-1	14.00	120.00	
Delaware, 1-1	11.00	90.00	
Van Buren, 2-1	26.00		
Van Buren, 1-1	16.00		
Sheridan, 1-1	14.00		
BLACKBERRIES			
Eldorado, transplants	6.50	55.00	
Eldorado, No. 1, r.c.	5.00	40.00	
Alfred, transplants	6.50	55.00	
Alfred, No. 1, r.c.	5.00	40.00	
Early Harvest, No. 1, r.c.	5.00	40.00	
BOYSENBERRIES and DEWBERRIES			
Boysenberry (Common), No. 1 tips	5.00	40.00	
Boysenberry (Thornless), No. 1 tips	5.50	45.00	
Lucretia Dewberry, No. 1 tips	5.50	40.00	
CURRANTS			
Wildor, 3-yr. heavy	15.00	130.00	
Wildor, 2-yr. No. 1	12.00	100.00	
Wildor, 1-yr. No. 1	7.00	60.00	
Red Lake, 2-yr. No. 1	16.00		
Red Lake, 1-yr. No. 1	12.00		
GOOSEBERRIES			
Downing, 2-yr. No. 1	25.00		
Houghton, 2-yr. No. 1	25.00		
Champion, 2-yr. No. 1	25.00		
BLUEBERRIES			
Prices of Rancocas, Rubel, Jersey			
2-yr., 9 to 12 ins., bearing age	\$0.40	\$3.50	\$32.50 \$300.00
3-yr., 12 to 18 ins., bearing age	.55	5.00	47.50 450.00
4-yr., 18 to 24 ins., bearing age	.75	7.00	67.50 650.00
Each Per 10 Per 100 Per 1000			
RED RASPBERRIES			
Latham, transplants	\$ 7.50	\$ 62.50	
Latham, 1-yr. No. 1	6.00	47.50	
Chief, transplants	7.00	60.00	
Chief, 1-yr. No. 1	5.50	45.00	
Sunrise, transplants	7.00	60.00	
Sunrise, 1-yr. No. 1	5.50	45.00	
Indian Summer, transplants	8.00	70.00	
Indian Summer, 1-yr. No. 1	6.50	55.00	
St. Regis, transplants	7.00	60.00	
St. Regis, 1-yr. No. 1	5.50	45.00	
BLACK RASPBERRIES			
Cumberland, trans., No. 1	8.00	70.00	
Cumberland, trans., No. 2	6.50	55.00	
Cumberland, tips, No. 1	4.50	35.00	
Logan, trans., No. 1	8.00	70.00	
Logan, trans., No. 2	6.50	55.00	
Morrison, trans., No. 1	9.00	80.00	
Morrison, trans., No. 2	7.50	65.00	
Morrison, tips, No. 1	5.00	40.00	
PURPLE RASPBERRIES			
Sodus, No. 1, tips	5.50	45.00	
ASPARAGUS			
Paradise and Washington			
3-yr. heavy	4.00	30.00	
2-yr. No. 1	2.50	18.00	
1-yr. No. 1	1.70	12.00	
1-yr., in 10,000 lots		10.00	
VICTORIA RHUBARB			
Whole Roots			
1 1/2-in. and up	8.00	75.00	
1 to 1 1/2-in.	5.50	50.00	
3/4 to 1-in.	4.00	35.00	
1/2 to 3/4-in.	3.00	25.00	
RED RHUBARB			
Canada Red, No. 1 divisions	40.00	350.00	
McDonald, No. 1 divisions	30.00	250.00	
HORSE-RADISH			
Cuttings, 4 to 5 ins.	2.00	15.00	
Whole Roots	4.50	35.00	

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subjects to be discussed are "How to Avoid Waste in the Nursery"; "Is the Job Finished When the Order Is Taken?"; "What the Retail Landscape Nurseryman Expects When He Buys Nursery Stock," and "What Responsibilities Does the Landscape Foreman Have in Carrying Out the Jobs?"

It is hoped that James Ilgenfritz, Monroe, Mich., president of the American Association of Nurserymen, will be present to speak at the program February 9. One of the guest speakers that day will be James S. Wells, manager of Koster Nursery, Bridgeton, N. J., who will discuss "Propagation Practices."

PLAN ROCKY MOUNTAIN HORTICULTURAL MEETING.

The annual Rocky Mountain Horticultural Conference will be held February 6 and 7 at the Cosmopolitan hotel, Denver, Colo., George Kelly, Arapahoe Acres, Littleton, Colo., of the program committee, has announced.

The first days session will include talks on "Agriculture and Horticulture in Colorado," by Paul Swisher; "Trees for the Rocky Mountain Area," by Dr. A. C. Hildreth assisted by E. Sinnamon; "Landscape Problems

LIGUSTRUM IBOLIUM

Hardy California Privet.

	Per 100	Per 1000
2 to 3 ft., br.	\$4.50	\$37.50
18 to 24 ins., br.	3.50	27.50
12 to 18 ins., br.	3.00	22.50
12 to 36 ins., row-run	3.00	25.00

LONICERA JAPONICA

HALLIANA

2-yr., fr.	7.50	60.00
1-yr., fr.	6.00	45.00
Rooted div., liners	.75	6.00

VINCA MINOR

Hardy Myrtle.

Medium clumps	3.50	30.00
Rooted div., liners	.60	5.00

5 per cent discount for cash with order.

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1, 2 and 3-year.

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Peach — Plum — Grape
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Special prices will be made on
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Also Shrubs, Evergreens and
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See T. N. Nicholson at
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Reference: Bank of Louisiana.

SURPLUS VARIETIES

1-yr. Peach Trees		Each
3/4-in. and up, 6 ft. and up.....		\$0.35
1 1/16 to 3/4-in., 5 to 6 ft.....		.25
9/16 to 1 1/16 in., 4 to 5 ft.....		.20
7/16 to 9/16 in., 3 to 4 ft.....		.20
J. H. Hale	Mayflower	
Indian Cling	Early Elberta	
White English	Hiley	
Carman	Elberta	
Belle of Georgia	Red Bird	
Halehaven	Early Rose	
Chinese Cling	Golden Jubilee	

2-yr. Apple Trees		
1-in., 6 ft. and up.....		.40
1 1/16 to 1-in., 5 to 6 ft.....		.30
9/16 to 1 1/16 in., 4 to 5 ft.....		.25
7/16 to 9/16 in., 3 to 4 ft.....		.20
Arkansas Black	Winesap	
Early Harvest	Yellow Delicious	
Astrachan	Red Delicious	
Black Ben	M. B. Twig	
Early Transparent	Stayman	
Red June	Yates	

1-yr. Plum Trees		
3/4-in., 6 ft. and up.....		.40
1 1/16 to 3/4-in., 5 to 6 ft.....		.35
9/16 to 1 1/16 in., 4 to 5 ft.....		.25
7/16 to 9/16 in., 3 to 4 ft.....		.20
Mammoth Gold	Red June	
Damson	Burbank	

1 and 2-yr. Pear Trees		
9/16-in., 5 to 6 ft.....		.60
9/16-in., 4 to 5 ft.....		.50
7/16-in., 3 to 4 ft.....		.40
Pineapple	Kieffer	Garber

Cherry Trees		
2 to 3 ft.....		.65
3 to 4 ft.....		.75
Montmorency	Early Richmond	

1-yr. No. 1 Grapevines		10c each
Niagara	Moore's Early	
Concord	Fredonia	

Weeping Willow Trees		
6 to 7 ft.....		.75
7 to 8 ft.....		.90
I have owned this nursery for 30 years, and people come back every year and want more stock. All stock is machine-dug.		

JOPPA NURSERY CO.

Grower of Fruit Trees,

Vines and Shrubbery

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NOW OFFERING**A COMPLETE LINE OF SMALL FRUIT PLANTS**

We will be glad to quote on your requirements.

ANDREWS NURSERY CO.
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Our General Line of

SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

Chipman's

RED RHUBARB

Large, No. 1 divisions, \$15.00 per 100.

Cash with order; packing free.

Write for prices on larger quantities.

KEELER'S GARDENS
SIOUX FALLS, S. D.

Peculiar to the Rocky Mountain Area," by S. R. De Boer, assisted by E. Johnson and Julia Jane Silversmith; "Lawns, Their Building and Care," by J. Haynes, assisted by P. Morrow, W. Nolan and J. Hazelton; "Floriculture Research at Colorado A. and M. College," by W. D. Holly, associate horticulturist, and "The Common Mold, Man's Friend or Enemy?", by Thomas Martin. The banquet will be held in the evening, and movies of plant growth will be shown by Dr. Moras Shubert.

The second day will start with simultaneous meetings, the first hour featuring a discussion of "Transplanting Tricks," with C. Herzman as chairman. Individual topics and those who will discuss them are: Rhododendrons and oaks, M. Braun; hackberry, G. K. Kroh, Kroh Bros., Loveland, Colo.; hawthorne, W. Lucking; paper pots, F. M. Richard, Richard's Gardens, Fort Collins, Colo.; birch, G. A. Amidon, Amidon's Cash Nursery, Denver, and mountain plants, H. Gesetefeld. During this time stereoscopic pictures on lawns and gardens will be shown by T. S. M. Lease and movies on "How Roots, Leaves and Flowers Grow," by Dr. Shubert.

The rest of the morning will be devoted to a talk on "Valuable New Plants for the Rocky Mountain Area," by W. R. Leslie, superintendent of the experiment station at Morden, Man., Canada. In the afternoon there will be commercial demonstrations at the city park, for which G. Carlson is chairman. The arborists' dinner will be held in the evening.

HIGHWAY SHORT COURSE.

The ninth annual short course on highway development, sponsored jointly by Ohio State University and the Ohio department of highways, will be held March 22 and 23 at Columbus, with an inspection trip over the state March 24 and 25.

The conference, covering the latest subjects in roadside development, will present topics of general interest to engineers, landscape architects, teaching personnel and the public.

FLORIDA PLANNING.

Nurserymen, florists and greenkeepers in the Palm Beach, Fla., area met informally with the Palm Beach Florists' Club December 8 at the Palm Beach Biltmore hotel, Palm Beach, to make preliminary arrangements for the spring convention of the Florida State Florists' and Nurserymen's Association. State President Calvin Kinsman, Miami Beach, opened the meeting and led group discussion.

INTRODUCING
Hagerstrom's New Patented
(Pat. Pend.)
Everbearing Strawberry

(Wayzeta x Fairfax)

Large berry, heavy fruiter, good quality and substance, reproduces freely. A great contribution to commercial and home garden strawberry growers.

Sold only under contract and royalty restriction for propagation for sale. A limited number of potted plants available this season.

Historical and descriptive price list upon request.

HILLCREST GARDENS

ALBERT LEA, MINN.

Authorized agent under contract for exclusive potting rights of Hagerstrom's patented strawberry.

FRUIT TREES

Apple, 1 and 2-yr., Dwarf and Standard

Pear, 1 and 2-yr., Dwarf and Standard

Plum, 1 and 2-yr.

Sweet and Sour Cherry, 1 and 2-yr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

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DANSVILLE, N. Y.**GRAPEVINES**

Heavy, well rooted.

2-yr. Concord and Niagara.

Hydrangea P.G.

Peach

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WESTHAUSER NURSERIESSpecializing in
Strawberries and All Cane Plants

Full Line of Nursery Stock

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SAWYER, MICH.

NORTH LOUISIANA GROUP REORGANIZES.

Inactive since the war started, the North Louisiana Horticultural Association has been reorganized and nurserymen, florists, seedsmen and allied tradesmen are invited to become members. Those interested should write the president, R. T. Thornhill, Thornhill Florist, 216 East Kings Highway, Shreveport, La.

Raymond Godfrey, Shreveport, is the landscape and nurserymen's representative; J. E. Bossier, Bossier City Flower Shop, Bossier City, the florists' representative, and W. T. Lott, Lott's Seed Store, Shreveport, seedsmen's representative. J. Roland Kelly, Kelly's Florist, Shreveport, is secretary-treasurer.

Ira Montgomery, of Neff Bros., and Ed Sanders, of Sanders Wholesale Florist, were hosts for the reorganization meeting held at Monsour's restaurant, Shreveport. A turkey dinner was served, and Mr. Bryant, of the chamber of commerce, was principal speaker.

SOCIETY GIVES PORTRAIT TO RENE CASADABAN.

A committee representing the Louisiana State Horticultural Society presented an oil painting of the late Mrs. Rene J. Casadaban, to Rene J. Casadaban, owner of Casadaban's Nurseries, Abita Spring, La., at his home there on December 11. Members of the committee were Elmer A. Farley, Manual Zabala, Thomas W. Reed, George P. Dupuy, Dan A. Newsham and Charles Robinson.

The presentation had originally been scheduled for December 8 when Mr. and Mrs. Elmer A. Farley entertained over 200 persons, including members of the horticultural society and the New Orleans Retail Florists' Association at their annual private Christmas dinner and party in the grand ballroom of the Roosevelt hotel.

NURSERY GRADUATES.

Fourteen young men have been awarded diplomas for completion of the 2-year course in nursery and landscape management at Michigan State College, East Lansing. They are John J. Crinnion, William Deary, Adrian DeWard, A. Peter DiAngelo, Bernard Dupuis, Willis Hansen, William G. Hartfelder, George Heilman, Russell W. Knechtel, Gene R. Leatherman, Howard Midgeley, Melvin Peckosh, Roger T. Thayer and Maurice Wilsey.

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Our 65th Year

A FINE ASSORTMENT OF
HARDY UPLAND-GROWN

FRUIT TREES

1 and 2-year

STANDARD and DWARF PEAR

STANDARD APPLE

PLUM, APRICOT, QUINCE

SWEET and SOUR CHERRY

PEACH, 1-YEAR

SHRUBS—EVERGREENS—ORNAMENTALS

Let Us Quote You Attractive Wholesale
Prices on Your Spring Requirements.

Write for Complete Trade List.

See our Representative, H. W. Maloney,
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CERTIFIED BLUEBERRY PLANTS

1-year Rooted Cuttings, 2 and 3-year Nursery Plants,
All Varieties.

Propagated from stock taken from our own productive farms.

Guaranteed True to Name.

SEND for RIGHT WHOLESALE PRICES.

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HAMMONTON, NEW JERSEY

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Wholesale growers of Dependable

FRUIT TREES

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APPLE and PEAR SEEDLINGS

2-yr. APPLE TREES

1-yr. PEACH, CHERRY, PLUM
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All grades. Write for special low
prices.

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SMALL FRUIT PLANTS

Thirty varieties of Grapes, in-
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GOLDEN MUSCAT

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Currants and Berry plants

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RED - BLACK - PURPLE

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GRAND JUNCTION, MICH.

This Business of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

VALUE OF WEEDS.

There was recently a conference in the middle west on weed control, which brought forth the usual remarks on the millions of dollars that weeds cost us each year and the widespread discomfort that they cause to hay fever sufferers. The implication of these remarks, at least to the layman, is that the eradication of weeds would bring absolute savings. The real truth, however, is that, if all the so-called weeds were removed from the earth, it would so upset the balance of nature that it might cost us many times the monetary loss that weeds cost us now.

2,4-D is the weed-eradicating agent upon which the most emphasis is laid, and yet, while it was a great discovery and will continue to have many uses, we have no inkling of the effects that its continued use will bring. Our short-time use of DDT has already brought us some surprising discoveries, not the least of which is what it has done to multiply our red spider troubles. Flies and mosquitoes are already developing varying degrees of immunity to its killing powers, as will probably many plant insects.

A nurseryman is certainly aware of the cost and inconvenience caused by weeds (and, in addition, I am allergic to ragweed pollen), yet being so close to weeds we are also aware of possible indirect benefits.

The shortage of labor during the war pointed out that weeds growing in well established tree blocks and with certain other types of nursery stock at least did no harm and perhaps did some good as a kind of cover crop. Since natural plant life abhors a vacuum and covers quickly many bare soil areas, the value of weeds in preventing soil erosion must be tremendous. It is quite possible that weeds do more good in preventing soil erosion than harm in other respects.

Weeds are justly accused of being harbors for insects and plant diseases, but they might also be accused of absorbing the attention of pests, which might turn in epidemic form on cultivated plants if the favored weed host were removed.

We do not know how many of our beneficial birds live on weed seeds and weed parts during certain seasons. Yet the same birds may, at

other seasons, do real service in keeping insect pests under control.

Surely, every weed that one might mention has close relatives that are cultivated in horticulture for their beauty or in agriculture for their commercial use. Probably, many of these weeds have in their genetic make-up potential qualities that, upon hybridization, may make them valuable or beautiful. How do we know when some weed may be found the source for some drug,

AMERICAN NURSERYMAN


chemical or food hitherto unknown? The weed of today may be important to agriculture tomorrow.

The study of the many ways of weed control is important and should continue, but the idea of complete eradication of weeds is not only a foolish dream but a dangerous one.

E. S. H.

A BRICK MULCH.

Not long ago a customer remarked that in spite of the fact that she did not have a green thumb she had rooted a sizable branch of a fire thorn quite easily. The cutting must have been two feet long, and the result seemed improbable, if not impossible, until she told me that she had set the branch in a shallow




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Azaleas, Camellias, Gardenias
and a General Line of
Ornamental Nursery Stock
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WHOLESALE ONLY

★ **A NEW STAR** ★
For All-winter Bloom
The Outstanding
CAMELLIA
"Joseph Pfingstl"

This new seedling produces a very large bloom about 5-inch diameter, in dark red, radiating scarlet and crimson. Blooming season between mid-October and mid-April. Very hardy, blooms last for days. One-year grafts or own-root, \$25.00 per 100. Order now. Plants available now.

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SEMME'S NURSERIES
AZALEAS - CAMELLIAS
and other choice evergreens.
Wholesale Catalog SEMME'S, ALA.

GRAPE CUTTINGS
CONCORD and FREDONIA, \$3.50 per 1000, F.O.B. here. Tied with wire, 100 to bunch. Guaranteed true-to-name. Cut from our young, thrifty vineyard by experienced workmen.

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QUALITY STOCK
In Good Quantity

Excelsa Arborvitae,	Each
24 to 30 ins.	\$1.25
30 to 36 ins.	1.50
Baker Arborvitae,	
24 to 30 ins.	1.30
30 to 36 ins.	1.50
Spiny Greek Juniper,	
15 to 18 ins.	1.25

Write for list of other stock.
See our classified ad on Hydrangeas on page 00.

VERHALEN NURSERY CO.
SCOTTSVILLE, TEXAS
Your Profits Grow in Verhalen Plants.

Beautiful
NATIVE RED CEDARS

6 to 10 ins.	\$20.00 per 1000
10 to 15 ins.	35.00 per 1000
15 to 24 ins.	\$ 7.50 per 100
2 to 3 ft.	12.50 per 100
3 to 4 ft.	17.50 per 100

Will not be able to supply demand again this season. First come, first served.
Write for our new, very low prices on nursery stock. Big reductions.

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HEAVY 2-YR. SHRUBS
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SPECIMEN EVERGREENS
LINING-OUT STOCK

SNEED NURSERY COMPANY
P. O. Box 798
Oklahoma City 1, Okla.

trench and laid a brick over it. The brick, of course, was the real reason for the rooting. The cutting had been set in a partly shady spot, and the brick kept the soil under it and over the cutting constantly moist.

The idea of a brick mulch is not particularly new, but of recent years it has been given a little more attention. Just two days ago I visited a customer who had mulched all her newly transplanted trees with bricks, as we should use manure or peat moss.

This section of Maryland, on the Eastern Shore, has a good many brick houses, both old and new, with their accompanying brick walls, terraces and courtyards, and it has been our observation that all of our broad-leaved evergreens do best when their roots reach under a paved brick area (open joints). This is particularly noticeable with boxwoods, hollies and southern magnolias. The plants always appear a rich green and vigorous in growth. Besides providing moisture retention, the bricks also retain considerable warmth, which the broad-leaved evergreens like. This ability is also useful in growing early and late strawberries as well as early and late vegetables in the garden. I understand that rocks are useful in this connection and with some gardeners quite a fad; it would seem to have considerable merit. A wholesale nurseryman once told me that during a severe drought the plants in a particularly stony field survived by far the best.

The use of bricks as a mulch would appeal mostly to the amateur gardener who plants on small areas where a combination of nicely designed paved areas would serve both practical and artistic ends. E. S. H.

GIFT CERTIFICATE.

A feature story in the December 5 edition of the Huntington, W. Va., Herald, told of the Christmas gift certificate which the Lavalette Landscape Nursery Co., Huntington, offered for the holidays. A reproduction of the attractive gift certificate illustrated the article. The nursery delivered all plants for the Huntington area and shipped to any part of the country. With gift purchases arrangements for planting could be made also. Deliveries and planting could be made at any time, though the gift certificate was sent for Christmas.

The story also announced that the nursery could deliver for Christmas many types of evergreen trees to be used as living Christmas trees. Such plants were balled and burlapped and placed indoors for the holidays and planted outdoors afterward.

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We will ship direct to your customers if you desire. You're welcome to come and see our fields. Let us quote you on your entire needs.



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MAGNOLIA SOULANGEANA

4 to 5 and 5 to 6 ft.

3-yr., well branched, carrying dormant bloom buds
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CHASE, ALA.



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CAMELLIAS

AZALEAS

DECIDUOUS FRUITS
CITRUS

New Trade List available on request. See classified ad on Persimmons.

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CHINESE CHESTNUT TREES and SEED NUTS

Pure *Castanea mollissima* nuts and seedling trees from the same orchard containing the parent trees of the new U.S.D.A. varieties Nanking, Meiling and Kuling. No better strains available. Trees from 12 inches to 5 feet. Prices on request.

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HARDY RHODODENDRON HYBRIDS

1-yr. transplanted grafts from field beds.
For delivery February and March, 1950.

AVAILABLE HARDY HYBRIDS

- 800 Caractacus, purplish-crimson
- 950 Catawbiense Album, white
- 1200 Catawbiense Grandiflorum, lilac
- 800 Catawbiense Boursault, rosy-lilac
- 1000 Dr. Dresselhuys, red
- 500 Dr. V. H. Rutgers, red
- 1500 Edward S. Rand, red
- 200 Gomer Waterer, white
- 300 Lee's Dark Purple
- 350 Mrs. P. den Ouden, red, dwarf
- 200 Roseum Elegans, rose
- 500 Van der Hoop, carmine-rose
- 500 Van W. Poeiman, red

For prices, consult our wholesale catalog. Copy upon request.

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Also all the latest English varieties of fruit trees such as:

APPLES—Winston, Sunset, Laxton's Advance, Laxton's Epicure, Laxton's Fortune, George Neal, James Grieve, Tydemans' Early Worcester (mostly bred from Cox Orange).

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FOREST PLANTS and Seedlings

ROSES and EVERGREENS

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STILL AVAILABLE

East Malling II, IV, VII and XVI.
Quince type B; Myrobalan B.

ENGLISH VARIETIES OF GOOSEBERRIES

Layers for lining-out, \$20.00 per 100.

Gold Coin, Cousen's sdg.,
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Fully Matured—Packed Dry—Saves Freight
20 LARGE 4-bu. BAGS (2 color) \$20.00
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and Belgian plants.
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OBITUARY

James C. Banta.

James Cuthbert Banta, 22-year-old son of Mr. and Mrs. Jay C. Banta, of L. R. Taylor & Sons, Topeka Nurseries, Topeka, Kan., died December 6 as a result of accidental carbon monoxide poisoning.

Mr. Banta had been working on his automobile in a closed garage at the Bantas' farm home east of Topeka. When his mother called him for dinner, she found him unconscious and the car motor running. A physician's efforts to save his life proved futile.

Born at Topeka July 29, 1927, Mr. Banta had lived in that vicinity all his life. Following graduation from Perry high school, he attended Baker University and was enrolled at Washburn University at the time of his death. Following the end of the war, he had served for two years in the Merchant Marine.

Besides his parents, he is survived by a sister, Mrs. Don Selzer, Manhattan, and his grandfather, E. R. Taylor.

John A. Kusse.

John A. Kusse, 70, vice-president of Brown Bros. Co., Rochester, N. Y., died December 3 at his home at West Webster. A native of Rochester, Mr. Kusse started with the Penfield nursery of Brown Bros. Co. when he was 12 years old.

Survivors include his widow, Mrs. Ann Henderson Kusse; two sons, Robert, of Detroit, and Donald; a daughter, Mrs. Betty Gleason, and five grandchildren.

Dr. Edmund Secrest.

Dr. Edmund Secrest, director of the Ohio agricultural experiment station, Wooster, from 1937 to 1947 and former state forester, died November 28 at Ford hospital, Detroit, following a brain operation. He was 68.

Several months ago he was named chairman of the new forestry research department at the station when the division of forestry was transferred to the new Ohio department of natural resources. Dr. Secrest was also recently named by Governor Lausche to be a member of the Ohio strip mine commission.

The nationally known arboretum at the Ohio agricultural experiment station, Wooster, has been named the Secrest Memorial Arboretum by the state university's board of control, in honor of the first state forester and pioneer who established the state forests and forestry system in Ohio.

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Many a man has moved to higher places, has become a more valuable employee—with this practical, 8 to 12 months' home study course. Nursery owners whose men know landscaping increase their services to the public—and their profits.

45 printed and beautifully illustrated lessons—landscape gardening, designing landscaping of homes, estates, parks, cemeteries, etc. Continuous free consultative service. 34th year. Students throughout the world. Write for FREE catalog.

Francis A. Robinson, president, is a partner of Robinson & Parnham, member of American Association of Nurserymen; in active professional landscape practice for 39 years.

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Best results are obtained when sown in flats or pans containing light, well drained soil topped with one inch of shredded sphagnum. Cover seeds with shredded sphagnum moss, water well and place where they will be exposed to freezing temperatures for several months.

Pkt. 1/4-oz. Oz.

Acaulis, finest mixed.
Brilliant mixture with flowers on single, short stems\$0.75 \$3.75 \$14.00

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Large fragrant velvety blooms50 2.25 7.50

Polyantha,
fancy mixed75 3.50 12.00

Polyantha,
blue-flowered 1.00 3.50

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SEEDS — PLANTS — BULBS
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Growers' Accessories

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Dedication ceremonies will be arranged in spring.

He is survived by his widow and two daughters, Mrs. Mary Hoover Shibley, Lakewood, and Edith, a student at Philadelphia.

Elijah W. McClung.

Elijah Warren McClung, who had operated a landscaping and tree surgery business at Memphis, Tenn., before his health began to fail five years ago, died November 24. He was 77 years old.

Surviving Mr. McClung are his widow, Mrs. Catherine McClung; a son, Elmore Warren; three daughters, and four sisters.

Frank W. McGregor.

Frank W. McGregor, 69, yard salesman for the past four years at O. S. Gray Nursery, Arlington, Tex., was killed December 10 as he walked across a highway west of Arlington. Survivors include his widow, three sons and two daughters.

VIRGINIA NOTES.

Last month T. D. Watkins, of Watkins Nurseries, Midlothian, Va., was ill in Stuart Circle hospital, Richmond. He is reported improving at the present time.

Construction of a 100-foot greenhouse has been started at Gresham's Nursery, Richmond, Va. Recently the latest in oil-burning equipment was installed to heat the greenhouse range and office.

Colonial Farms, Richmond, Va., are completing a new greenhouse, boiler room and potting shed. The unit is heated by modern oil-burning equipment.

Nearly completed at Southside Nurseries, Richmond, Va., are a new office and potting shed. Both are of cinder block construction. The office is 22x35 feet.

NEW editor of the Fruit Varieties and Horticultural Digest will be J. C. McDaniel, horticulturist for the Tennessee department of agriculture. He will replace Dr. Wesley P. Judkins, who has edited the magazine since its inception four years ago and who was recently appointed head of the department of horticulture at Virginia Polytechnic Institute.

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13. Vegetable Gardening
14. The Rose—Rose Culture
15. Propagation of Plants by Cuttings
16. How to Make Drawings that Secure Jobs
17. How to Grade, Drain and Shape the Grounds
18. Lawns—Installation—Maintenance
19. Walks, Roads and Pavements
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21. Flower Borders and Rock Gardens
22. Garden Pools—Geometric—Informal
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26. Pruning—How and When to Do It
27. Transplanting Operations
28. Landscape Maintenance
29. Public Grounds—Design
30. Surveying—Scale—Orientation
31. Surveying—Plane Table Method
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34. Tree Surgery
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40. Elements of a Successful Garden
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42. Design and Planting Analysis Problem 1
43. Design and Planting Analysis Problem 2
44. Design and Planting Analysis Problem 3
45. Design and Planting Analysis Problem 4
46. Design and Planting Analysis Problem 5
47. Design and Planting Analysis Problem 6
48. Design and Planting Analysis Problem 7
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CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

304 MITAU BUILDING

SACRAMENTO 14, CALIF.

CENTRAL CHAPTER CHRISTMAS PARTY.

The Central chapter of the California Association of Nurserymen held its Christmas party December 8 at the Diablo Country Club. Over 200 nurserymen and their wives, sales representatives and guests enjoyed the excellent party. Not only were the setting and the dinner among the finest the group has had, but the special decorations and the fine folk dancing by the Alameda folk dancing class were most enjoyable. During the dinner and for a short time after, a 3-piece orchestra provided music for dancing.

After dinner the small, inexpensive gifts that each person was asked to bring were distributed by a jolly Santa Claus, who proved to be Gale ("Tiny") Hultman, Orchard Nursery & Supply, Lafayette. More expensive gifts were provided from funds furnished by several nursery supply houses in the area, such as California Pest Control Co., California Spray-Chemical Co., Volkman Seed Co., Ferry-Morse Seed Co., Germain Seed & Plant Co. and Schmeidel & Co.

Following the usual custom, no business was transacted at the Christmas meeting. The next meeting will be January 12 at Watsonville, and the ladies are invited. It is planned to install a new chapter of the association. The membership of the new group will come from the Watsonville area, which has not been organized into a chapter before and where there was, until recently, a small membership in the state association. The increase in membership has been due in a large part to the efforts of Arthur Hyde, H. A. Hyde Co., Watsonville. W. B. B.

TRI-COUNTY MEETING.

The eighty-seventh meeting of the Tri-County chapter of California Association of Nurserymen was held November 30 at the Barbara hotel, Santa Barbara.

Correspondence from the secretary of the state association, Elmer J. Merz, regarding the possibility of members' purchasing match folders for advertising purposes was read, and, after considerable debate, the question was tabled.

Committee reports included the reading of the financial report on the state convention held in September at Santa Barbara. The well prepared statement presented by Bert Kallman, who was convention chairman, showed a profit, and it was stated that this was the first time any convention of the California Association of Nurserymen had showed a profit. Thanks were once more given to Mr. Kallman for a job well done.

In the unfinished business department, it had previously been pointed out that the vice-president and secretary were in office only on an "elect" status; President Howard Brown quickly appointed Mr. Kallman as master of ceremonies, who unceremoniously, quickly and effectively installed the vice-president and secretary firmly in their offices.

Starting off the evening's program, Stanton Gray, of California Polytechnic College, spoke on "Minor Element Deficiencies in Deciduous Fruit Trees." He explained the work being done at the college orchard on trees in which these different elements were lacking. This work is still in an

AMERICAN NURSERYMAN

experimental state, and the net results of the tests have not yet been attained.

A motion picture entitled "California's Golden Beginning" proved interesting and entertaining.

Mr. and Mrs. Walter J. Knecht, of Knecht's Gardens, Ventura, were welcomed back from their trip to Europe.

Because of the rush of the holiday business, it was decided not to meet in December. The next meeting will be January 27 at Ventura.

H. B. Stribling, Sec'y.

TWO NURSERIES START MOVE TO SANTA BARBARA.

Last month Roy F. Wilcox, head of Roy F. Wilcox & Co., Montebello, Calif., completed purchase of sixty acres, with 2,300 feet of ocean front at Santa Barbara and began moving his 30-year-old wholesale azalea and indoor decorative plant business from Montebello to the newly acquired property.

The 900,000 azaleas growing at the Wilcox & Co. establishment at Montebello will be moved first. Later the palms and other indoor decorative plants will be brought to Santa Barbara. More than 100 persons will be employed at the nurseries, and there will be an office force of twenty-

PACIFIC COAST NURSERY

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Pioneer seedling growers on the Pacific Coast since 1914.

Specializing in fruit tree seedlings. Angers Rooted Quince Cuttings, Chinese Elm Seedlings and English Privet.

We aim to please
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five when the project is under way.

A crew of engineers has been making a master plan layout for lath houses, greenhouses and offices, as well as a new home, for which Mrs. Wilcox selected the site.

Mr. Wilcox said that his decision to move to Santa Barbara had depended on the outcome of Santa Barbara's vote for the Cachuma water project. The election held late in November assured adequate water supply for Santa Barbara.

Another prominent southern California firm, Deigaard Nurseries, Monrovia, have made plans to move to Santa Barbara county, according to an announcement by Bert Kallman, president of the Santa Barbara chamber of commerce and veteran nurseryman. A letter from Louis Deigaard to Mr. Kallman stated that the firm had purchased about thirty-one acres at Goleta, with approximately 600 feet of water frontage. Mr. Deigaard's decision also was based on the Cachuma water project's assurance.

Mr. Deigaard contemplates a wholesale operation at the new property. He plans to move the wholesale growing business gradually over the next few years, recognizing that the water supply may be limited until water is available from the Cachuma project.

The increasing smog and concentration of population in the Los Angeles area have been cited as two of the principal reasons for migration of plant-growing firms.

CITRUS QUARANTINE IN SOUTHERN CALIFORNIA.

The movement of citrus nursery stock from a large part of southern California is now illegal under the quick decline quarantine enacted by the California department of agriculture. Under the quarantine order restricted articles are plants and propagative parts of sweet and sour orange, mandarin, grapefruit, pomelo, lemon and any hybrid having at least one per cent of these species. Also restricted are any species of rootstock carrying dormant or otherwise propagative parts. Exempt are seeds and rootstocks of these species when used solely as rootstocks for plants other than those named.

The area under quarantine has been extended westward to the Ventura-Los Angeles county line and northwestward to San Fernando valley. It extends eastward through Riverside, San Bernardino and counties to all of Orange county and the Yucaipa and Marino districts in San Bernardino and Riverside counties.



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Myrtus communis variegata	15c
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CALIFORNIA NOTES.

Ernest Esch has finished his schooling and is now in business with his father at the Esch Nursery, San Jose. The elder son, who has been with the McKlatchey radio chain, in the central part of the state, joins the staff of the National Broadcasting System January 1.

Some arborists on the peninsula have had an unfortunate time recently. John Davis, Redwood City, fell out of a tree on which he was operating and has been unable to work since. He is recovering and soon is expected to be able to do supervisory work. A few days later an employee of Frank Nolan, also of Redwood City, was electrocuted when his tools accidentally came in contact with a high voltage wire while he was in the top of a high tree. And the same day another employee of the same organization fell forty feet from a tree. One of the workers for the McClellan Tree Service was critically injured while going to work. He was riding a motorcycle which went out of control and crashed into a telephone pole. Last in this series of accidents befell J. C. Garner, who is employed by the city of Burlingame as a tree trimmer. He came in contact with a 120-volt line and was unable to let go or be removed for about five minutes, when the line was cut and the current stopped. He was given artificial respiration and regained consciousness by the time the ambulance arrived. He was removed to a hospital, where he is expected to recover.

Bert Edwards, nursery inspector for San Mateo county, has as an added duty the supervision of nursery placement students working under the direction of George Mangus, of San Mateo Junior College. Mr. Edwards devotes Saturdays to this work.

W. B. B.

FLORAL CALENDAR.

Among the calendars and other year-end tokens, that of the Milton Nursery Co., Milton, Ore., is outstanding because the page carrying the calendar for each month bears a handsome picture in full colors of a vase arrangement of different flowers and foliages. On the reverse is a description of the arrangement and the flowers it contains.

A GARDEN supply business, the Scenic Home & Garden Supply, is being operated by Gordon Thomson and Sidney Rogers at 1313 Scenic drive, Modesto, Calif. They specialize in house plants and nursery stock.

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2 to 3 ft.	5.00	30.00
3 to 4 ft.	7.50	50.00

Send for prices on pear seedlings, Bartlett Pear trees, etc.

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BALED SHINGLE TOW (CEDAR SHAVINGS)

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HOLLY SOCIETY MEETING.

[Concluded from page 16.]

for example, may be worthless in pollinizing a late-blooming female.

Maynard Fulton, manager of the Harrisburg Blueprint Shop, Harrisburg, Pa., presented volume III of information on holly to the society. Mr. Fulton was commended for his tireless efforts in collecting and assembling in three volumes information and data on holly.

The American Forestry Association, Washington, D. C., reported that the largest known American holly was recently discovered in North Carolina. The tree measures eleven feet one inch in circumference at breast height and has a total height of seventy-two feet and an average crown spread of forty-five feet.

The society expressed its sincere gratitude to the local meetings committee for the fine program and the hospitality afforded the members by the New Jersey agricultural experiment station. Dr. Charles H. Connors, research specialist in ornamental horticulture, served as chairman of the committee, assisted by Prof. Robert B. Clark and Herbert R. Cox.

GRAND opening of the Garden Beautiful nursery, 806 Foothill boulevard, La Canada, Calif., was held recently.

RECENTLY George Gregg and E. L. Busby started the North Foothill Nursery, 10469 Foothill boulevard, San Fernando, Calif.

ELECTION of officers of the Cooperative Wholesale Nurserymen was held November 14. Lynn Mossholder, Mossholder Nursery, El Monte, Calif., is the new president and H. A. Conklin, West Covina, secretary. Other members of the cooperative are Peter Rober Nursery, Ltd., El Monte; Select Nurseries, Whittier, and Buena Park Greenhouses, Buena Park.

FORMAL opening of Bill and Judy's Flower Land, Oakleigh highway, Antioch, Calif., was held in October. Recently moved to its new location from the ABC building, the business owned by Bill and Judy Schoenberg includes a modern building built specifically for Flower Land and leased from owner Murray R. Kay. The layout includes sales and work rooms in a building of 1,000 square feet made of field stone and redwood, and lath-covered grounds of 7,000 square feet. Flower Land offers complete floral, landscaping and gardening services.

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6 to 8 ins.....	\$0.70 \$0.65
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10 to 12 ins.....	1.15 1.00

Packing additional. Burlappling, 10c each extra, 25¢ at 1000 rate. Order today while they last, and send for list of other stock.

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75,000 AZALEA TRANSPLANTS.
Indica alba, Mary, Hinodegirl, Alice, Amoena, Hinomayo, Flame, Purple King, mixed pink Knempferi.
Very heavy, rooted.
12½¢ each in 1000 lots; 15¢ each in 100 lots.
Packing and shipping extra.
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AZALEA TRANSPLANTS.
3 to 5 ins., well branched, Hinodegirl, Pink Pearl, Hinomayo, Snow, Ledifolia alba, Magnifica, Coral Bells, Amoena and choice mixed. Ready in May, \$13.00 per 100. Packing free. Cash with order.

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Transplants on Cumberland.
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Transplants on Sodus.
RED, ¼-in. cal. Transplants. Chief
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Latham

Complete list of grapevines, currants and blackberries. Write for lowest wholesale prices on your requirements. A portion of the above is in storage ready for immediate shipment, and a portion will be Spring-dug in late March.

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Streamliner, Minn. 1166 and Brune's Marvel. Guaranteed true-to-name and free from mixed varieties. Choice northern-grown plants. Booking orders for spring delivery. 10 per cent discount on orders of \$50.00 or more. Gem, \$10.00 per 1000.
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No. 1 suckers.....\$30.00
1-yr. transplants.....40.00
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Black tips.....30.00
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VICTORIA RHUBARB, 1 to 1½ ins., \$30.00 per 1000; ¾ to 1-in., \$20.00 per 1000; ½ to ¼-in., \$15.00 per 1000.
Can ship rhubarb any time; tips early spring.
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Cultivated, improved hybrids.
Information, varieties and prices gladly sent on request.

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1000 Orange Triumph, top size.....20.00 180.00
2000 Spec. rubrum, top size.....25.00 245.00
2000 Spec. rubrum, top size.....35.00 350.00
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TUBEROUS BEGONIAS—Antonelli prize-winning hybrids. Outstanding size and color, 5c and up. GIANT GOLD CALLAS. Spectacular pot plants, easily grown, 10c and up. Gloxinia, delphinium and primrose hybrids. HYPER-HUMUS — The fertilized, cultivated peat for Cloveret mixtures, landscape work and bag sales, \$10.00 per ton plus freight, 25-ton cars. Fine profit and customer satisfaction. Complete price lists from HELEN YEARSLEY, Tranquil Gardens, 14301 Telegraph Road, Detroit 23, Mich. Will be at Michigan, Ohio and Illinois meetings.

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Norway, 2-0, 2 to 6 ins.....2.50 20.00
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Muncho, 2-0, 2 to 4 ins.....3.00 25.00
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Seedlings	Per 100	Per 1000
Fagus sylvatica, 8 to 10 ins.....	\$ 8.50	\$ 75.00
Fagus sylvatica purpurea, 8 to 10 ins.....	15.00	150.00
Juniperus virginiana, 2 to 4 ins. 5.00	40.00	
Laburnum anagyroides, 4 to 8 ins.....	3.50	30.00
Magnolia glauca, 2 to 4 ins.....	4.00	35.00
Pinus mugo, 4 to 6 ins.....	5.00	40.00
Pinus mugo, 6 to 8 ins.....	7.50	60.00
Pinus nigra austriaca, 4 to 6 ins. 6.00	50.00	
Pinus strobus, 4 to 6 ins.....	4.00	35.00
Pinus sylvestris, 4 to 6 ins.....	4.00	35.00
Thuja occidentalis, 4 to 6 ins.....	4.50	40.00
Thuja orientalis (understocks), 8 to 10 ins. tr.....	7.50	60.00
Tsuga canadensis, 6 to 8 ins. tr.....	12.00	100.00
Twice transplanted cuttings from beds		
Juniperus communis hibernica.....	\$2.25	\$20.00
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Taxus media hatfieldi.....	2.75	25.00
Taxus media hickelii.....	2.75	25.00
Taxus media Moon's columnaris.....	2.75	25.00
Taxus media ovata.....	2.75	25.00
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Well established cuttings from 2½-in. pots		
Andromeda japonica.....	1.75	15.00
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Juniperus communis hibernica.....	1.75	15.00
Juniperus communis suecica nana.....	1.75	15.00
Juniperus depressa plumosa.....	1.75	15.00
Taxus excelsa stricta.....	1.75	15.00
Juniperus glauca heizi.....	1.75	15.00
Juniperus horizontalis glauca wilsoni.....	1.75	15.00
Juniperus pfitzeriana.....	2.25	20.00
Taxus baccata repandens.....	1.75	15.00
Taxus cuspidata.....	1.75	15.00
Taxus cuspidata nana.....	1.75	15.00
Taxus media browni.....	1.75	15.00
Taxus media henryi.....	1.75	15.00
Taxus media hickelii.....	1.75	15.00
Taxus media Moon's columnaris.....	1.75	15.00
Taxus media ovata.....	1.75	15.00
Taxus media Vermeulen.....	1.75	15.00
Thuja occidentalis globosa.....	1.75	15.00
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Good, strong plants, ready for immediate delivery.
Each
Abelia grandiflora, 6 to 8 ins., 2½-in. p.\$0.12
Abelia Edward Goucher, 6 to 8 ins., 2½-in. pots......15
Arborvitae, Bakeri, 6 to 8 ins., 2½-in. p. 1.15
Arborvitae, Blue Spire, 6 to 8 ins., 2½-in. pots......15
Arborvitae, Howard's Golden, 6 to 8 ins., 2½-in. pots......15
Buxus harlandi, 4 to 6 ins., 2½-in. pots......12
Buxus rotundifolia, 4 to 6 ins., beds......12
Carolina Jasmine, 8 to 12 ins., 2½-in. p. 1.12
Euonymus japonicus, 6 to 8 ins., 2½-in. pots......12
Foraythia Spring Glory, 12 to 15 ins., 2½-in. pots......12
Gardenia fortunei, heavy, 2½-in. pots......15
Gardenia Mystery, heavy, 2½-in. pots......12
Gardenia radicans erecta, dwarf, 2½-in. pots......12
Hypericum (evergreen), 8 to 8 ins., 2½-in. pots......15
Ilex vomitoria (Yaupon), cuttings from berried plants, 6 to 8 ins., 2½-in. pots......20
Jasmine, Primrose, 12 to 18 ins., 2½-in. pots......12
Kadsura japonica, evergreen vine, 2½-in. pots......15
Magnolia grandiflora, heavy, 6 to 8 ins., 2½-in. pots......20
Magnolia grandiflora, 10 to 12 ins., 4-in. pots......30
Parkman's Jasmine, dwarf, 4 to 6 ins., 2½-in. pots......15
(An excellent dwarf-growing plant for the new-type house with low window construction.)
Pyraecantha lalandi, 6 to 8 ins., beds......15
Santolina, heavy, 6 to 8 ins., 2½-in. pots......12
Cash, please.
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Taxus cuspidata (Spreading yew).
3-yr. bedded liners, 10 to 12 ins., ready for field planting, \$30.00 per 100, \$250.00 per 1000.
NICK'S NURSERY
Near Louisville Anchorage, Ky.
DOUGLAS FIRS.
8 to 12-inch Douglas Firs.
\$7.50 per 100, \$60.00 per 1000.
COASTAL GARDENS
Sheridan, Ore.

LINERS.

Spring Delivery

	Each
Azalea Mollis, cream, branched, XX, 5 to 9 ins., flat.....	\$0.25
Camellia, Hermes, 2 1/2-in. pot.....	.25
Camellia, Cheerful, 2 1/2-in. pot.....	.25
Daphne.....	.15
Odora, X.....	.12
Cneorum, X.....	.12
Heather.....	.12
Bruckenthalia, XX, 2 to 4 ins., frame.....	.12
Med. White, XX, 2 to 4 ins., frame.....	.17
Mrs. Maxwell, XX, 2 to 4 ins., frame.....	.17
St. Kaverne, XX, 2 to 4 ins., frame.....	.15
Carna, X, flat.....	.12
Mediterranean Hybrid, X, flat.....	.12
VeVilia, X, flat.....	.12
King George, X, flat.....	.12
Springwood White, X, flat.....	.12
Thuja woodwardi, X, frame.....	.12
Thuja pyramidalis, X, frame.....	.12
Viburnum burkwoodi, X, 4 to 6 ins.....	.15
Viburnum burkwoodi, X, 6 to 8 ins.....	.17
Lithospermum (Heavenly Blue) X, pots.....	.12
F.O.B. Nursery, packed free, C.O.D.	

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Hi-way 99 at No. 212th
Rt. 3, Box 3529 Edmonds, Wash.

HEAVY LINERS FOR SPRING DELIVERY.

	Per 100
1000 Pyramidal Arborvitae, 12 to 15 ins., T.T.T.....	\$50.00
1000 Andorra Juniper, 9 to 12 ins., T.T.....	25.00
2200 Andorra Juniper, 8 to 10 ins., T.T.....	15.00
700 Woodward Globe Arborvitae, 8 to 10 ins., T.T.....	30.00
650 Juniperus glauca hetzi, 12 to 15 ins., T.T.....	60.00
1000 Taxus cuspidata, 9 to 12 ins., T.T.....	25.00
750 Ilex rotundifolia, 8 to 12 ins., T.T.....	25.00
2000 Canadian Hemlock, 9 to 12 ins., T.T.....	25.00
2000 Canadian Hemlock, 12 to 15 ins., T.T.....	35.00
9000 Juniperus horizontalis, 8 to 12 ins., T.T.....	15.00
100 Ilex convexa, 8 to 10 ins., T.T.....	20.00
All stock heavy, field-grown. Free packing. Cash with order, please. Ask for our complete price list. Mail us your want list for special quotation.	

WHEAT'S NURSERIES, St. Marys, W. Va.

LINING-OUT STOCK.

1000 Ilex convexa, 8 to 12 ins.	
1000 Ilex rotundifolia, 8 to 12 ins.	
1000 Buxus sempervirens, 2-yr. rooted cuttings.	
500 Juniperus excelsa stricta, heavy, 12 to 15 ins.	
500 Juniperus excelsa stricta, heavy, 8 to 10 ins.	
1000 Ligustrum japonicum.	
500 Euonymus japonicus.	
1000 Juniperus hetzi, rooted cuttings.	
500 Ligustrum lucidum.	

WANTED.

Dwarf Ligustrum, variegated Euonymus, Ilex burfordi and Photinia serrulata in tillage sizes.

THE CHALIN LEWIS NURSERY

"Up in the Hills of Piggott, Ark."

P.O. Box 83 Piggott, Ark.

EXTRA-HEAVY, FIELD-GROWN.

	Per 100
Thuja woodwardi, 10 to 12 ins.....	\$25.00
Thuja woodwardi, 8 to 10 ins.....	25.00
Taxus cuspidata, 12 to 15 ins.....	30.00
Taxus cuspidata, 9 to 12 ins.....	25.00
Juniperus, Andorra, 12 to 15 ins.....	28.00
Juniperus, Andorra, 9 to 12 ins.....	25.00
Taxus cuspidata, 12 to 15 ins.....	32.00
3-in. pots.....	27.00
Taxus hicksii, 12 to 15 ins., 3-in. pots.....	25.00
Taxus hicksii, 9 to 12 ins., 3-in. pots.....	25.00
Lombardy Poplar, 4 to 6 ft., whips.....	7.00
Lombardy Poplar, 2 to 3 ft., whips.....	4.00
Lombardy Poplar, 5 to 6 ft., br.....	15.00

RIVERSIDE WHOLESALE NURSERY

Delbert A. Smith
R.R. 1 Upper Sandusky, Ohio

NORTHERN-GROWN LINING-OUT STOCK.

	Per 100
Mugho Pine, 4-yr. T, 6 to 10 ins.....	\$15.00
Spreading Yew, 1-yr. T, 4 to 6 ins.....	15.00

2-YR. SEEDLINGS.

	Per 100 Per 1000
Scotch Pine, 3 to 6 ins.....	\$3.00 \$25.00
Norway Spruce, 2 to 4 ins.....	3.00 25.00
Black Hills Spruce, 2 to 4 ins.....	3.00 25.00
Mugho Pine, 2 to 4 ins.....	3.00 25.00

Packing free. Cash with order, please.

ARTHUR CASH NURSERY

Angola, N. Y.

LINING-OUT STOCK.

	Pot size Per 100
Taxus cuspidata.....2 1/2 to 2 1/2-in.	\$22.50
Taxus hicksii.....2 1/2-in.	25.00
Thuja pyramidalis.....2 1/2-in.	20.00
Thuja pyramidalis, Imp.....2 1/2-in.	20.00
Thuja woodwardi.....2 1/2-in.	17.50

SHRUBS.

Viburnum burkwoodi.....2 1/2-in.	\$5.00
Cash with order, packing without cost.	

The HOLLANDIA GARDENS

South Vienna, Ohio

GRAFTS.

Juniperus canescens, burkii glauca, pyramidalis (Dundee) and keteleeri. Other grafts at your request. Juniper grafts on virginiana understock for spring delivery, \$40.00 per 100; \$375.00 per 1000. 250 takes 1000 rate. Terms: Cash with order and free packing, or 25 per cent deposit with order, packing at cost, balance C.O.D.

ARROW WOOD NURSERY

Box 166 Warsaw, Ky.

HEMLOCKS.

	Each
Nice 2-yr. transplants.	
Tsuga canadensis. Canadian Hemlock.	
2 to 4 ins.....	\$0.05
4 to 6 ins.....	.07 1/2
6 to 8 ins.....	.15
8 to 12 ins.....	\$0.20
12 to 15 ins.....	.25

Write for other bargains in liners. 5 per cent discount for cash.

BOYD NURSERY CO.

P.O. Drawer 71 McMinnville, Tenn.

TAXUS, LARGE LINERS.

FIELD-GROWN TRANSPLANTS.

From selected cuttings, best strain.

	Per 100 Per 1000
Taxus cuspidata capitata.....	\$60.00 \$550.00
12 to 18 ins.....	70.00 650.00
18 to 24 ins.....	70.00 650.00

Also B&B Taxus, upright and spreading, in landscape sizes for Middle West shipment in carload lots.

BULK'S NURSERIES, Inc., Babylon, L.I., N.Y.

EVERGREEN SEEDLINGS.

	Per 100 Per 1000
Norway Spruce, 3-yr., 6 to 10 ins.....	\$5.00 \$40.00
Scotch Pine, 2-yr., 6 to 9 ins.....	4.50 35.00

Cash with order or 25 per cent deposit, and balance express collect.

STRICK & ALLYN CO.

Route 1 Elmira, N. Y.

LINING-OUT STOCK.

Pittzer Juniper, Baker's Arborvitae, Blue Spire Arborvitae, Wax-leaved Ligustrum, Euonymus japonicus.

Well rooted cuttings.

\$3.00 per 100, \$75.00 per 1000.

SARVER NURSERY CO.

P. O. Box 7062 Dallas 9, Tex.

COLORADO BLUE SPRUCE.

Highest-quality liners and Finished Trees.

Bare roots and B&B; packed for shipment.

Seedlings, 2-0, \$26.12 per 1000.

Transplants, from \$85.50 per 1000.

Specimen Finished Trees, from 63c each.

Write for complete price list

H. W. WEBER

16 Summer St. Weston 93, Mass.

LINING-OUT STOCK.

Cherry Laurels, 2 1/2-in. pots, \$10.00 per 100. Cash with order. No charge for packing.

PITTMAN'S NURSERY

Magnolia, Ark.

FRUIT TREES

A few thousand 3-year-old Apple: Jonathan, Double Red Jonathan, Yellow Delicious, Red Delicious, York, Turkey, Wealthy, Rome Beauty, Double Red Rome Beauty, Grimes-11/16-in., 35c; 1 to 1 1/4-in., 75c; 1 1/4 to 1 1/2-in., \$1.15; 1 1/2-in. and up, \$1.75 each, in 1000 lots.

5000 2-yr. Apple, leading varieties, 5/16-in., 15c; 7/16-in., 20c, 9/16-in., 25c each. A few hundred Pear: Seckel, Duchess, Bartlett-1-in., 85c; 1 1/4-in., \$1.25 each, in 1000 lots.

5000 Amur River North Privet, cut back, many branches. 2 to 3 ft., 9 1/2c; 3 to 4 ft., 13c; 4 to 5 ft., 20c each, in 1000 lots.

500 Hansen Dwarf Cherry, 3-yr., heavy, 3 to 4 ft., 30c; 4 to 5 ft., 60c each, in 1000 lots.

1000 American Ash, 1 1/2 to 2-in., \$1.50; 2 to 2 1/2-in., \$2.25 each.

EGYPTIAN NURSERY & LANDSCAPE CO.

Farina, Ill.

REDUCED PRICES.

For first-quality stock.

	Per 100 Per 1000
Apple trees, 3-yr., 4 to 5 ft.....	\$20.00 \$175.00
3-yr., 5 to 6 ft.....	25.00 225.00

This block of apple trees consists of about 5,000 trees, well branched and free from disease.

Chinese Chestnut trees, transplanted in the spring of 1948 to the field. 1 to 2 ft., \$50.00 per 100; 2 to 3 ft., \$60.00 per 100; 3 to 4 ft., \$70.00 per 100; 4 to 5 ft., \$80.00 per 100. About 7,000 trees.

Free boxing and packing. If you come with your truck we will take off what it would cost us to pack.

HOME NURSERY CO.

Fort Gay, W. Va.

AN OPPORTUNITY in Tane-Nashi Persimmons! Mention American Nurseryman in your order and get 1000-rate price on order of 50 and up. Our top-quality trees.

	Per 100 Per 1000
2 to 3 ft.....	\$55.00 \$500.00
3 to 4 ft.....	70.00 650.00
4 to 5 ft.....	90.00 850.00

Cash from new customers, please.

GLEN SAINT MARY NURSERIES CO.

Glen Saint Mary, Fla.

CHERRIES—Good height—well branched.

MONTMORENCY.

Size 9/16-in., 60c ea. Size 11/16-in., 70c ea.

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

APPLE TREES.

	Each	per 100
3-yr., good caliper.....	\$0.20	\$20.15
3 to 4 ft.....	.25	.20
4 to 5 ft.....	.35	.30
5 to 6 ft.....	.35	.30
Red Delicious, Yellow Delicious, Jonathan, Yellow Transparent, Stayman.		
BENTON COUNTY NURSERY CO., Inc.		
Rogers, Ark.		

FRUIT AND NUT TREES of all kinds. Write for wholesale list. Thanks, FITZGERALD'S NURSERY, Stephenville, Tex.

GROUND COVERS

	Per 1000
PACHYSANDRA TERMINALIS.....	\$65.00
1-yr., field-grown.....	75.00
2-yr., field-grown.....	75.00

Cash with order, please.

HILLCREST GREENHOUSES, Franklin, Pa.

EUONYMUS RADICANS VEGETUS.

Strong rooted cuttings.....\$8.00 \$75.00

PLANE-VIEW NURSERY

Newport, R. I.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS.

From Hardy Northern-grown Shrubs and Trees. Delivery now. From our own plantations and blocks checked yearly for accuracy. Cut 7 inches.

	Per 1000
Aronia melanocarpa.....	\$ 4.00
Cornus paniculata.....	4.00
sibirica.....	4.00
lutea (yellow bark).....	4.00
amomum.....	4.00
Forsythia intermedia.....	3.00
spectabilis.....	3.00
Elder, Golden.....	6.00
Red-berried.....	5.00
canadensis.....	3.00
Hydrangea P.G.....	5.00
Hydrangea A.G.....	5.00
Privet, Amur.....	3.00
Regel (true).....	3.00
Ibota.....	3.00
Honey-suckle, morrowi.....	3.00
bella albidia.....	3.00
bella rosea.....	3.00
lat. rosea.....	4.00
korolkowi.....	4.00
zabell.....	6.00
syringantha.....	5.00
maackii.....	4.00
Diervilla trifida.....	4.00
Philadelphus grandiflorus.....	3.00
Mt. Blanc.....	3.00
Bouquet Blanc.....	3.00
lemoncel.....	5.00
Physocarpus opul. aureus.....	3.00
Physocarpus opul. nanus.....	3.00
Sorbaria sorbifolia.....	3.00
Spiraea billardi.....	3.00
freibell.....	3.00
thunbergi.....	3.00
vanhouttei.....	3.00
trichocarpa.....	3.00
Snowberry, White.....	3.00
Lilac, rothomagensis.....	5.00
Viburnum dentatum.....	4.00
Poplar, Lombardy.....	3.00
Willow, Niobe.....	3.00
Wisconsin.....	3.00
Golden.....	3.00
Pussy.....	3.00
Packed free. Cash with order, please. Delivery in good order guaranteed.	

THE SCOTCH GROVE NURSERY

Scotch Grove, Iowa

HARDWOOD CUTTINGS.

	Per 1000
Andorra Juniper (dep. plumosa).....	\$15.00
Juniper (chinensis).....	20.00
Koster Juniper (kosteri).....	25.00
Irish Juniper (hibernica).....	20.00
Swedish Juniper (suecica).....	20.00
Japanese Juniper (japonica).....	25.00
Savin Juniper (sabina).....	20.00
Pyramidal Arborvitae.....	25.00
Globe Arborvitae (woodwardi).....	25.00
Siberian Arborvitae (wareana).....	25.00
Lombardy Poplar.....	3.00
Amur River North Privet.....	2.75
Niobe Golden Weeping Willow.....	3.00
Wisconsin Weeping Willow.....	3.00
Pussy Willow, large French pink.....	6.00

All above from our own cutting blocks which, due to the very favorable weather this season, are some of the finest cuttings we have ever offered. Every cutting hand cut to 7 inches. Evergreens trimmed ready for beds. Cash with order, please, but packing free, 10 per cent discount in lots of 5,000 or any multiple.

BOB NEPRASH NURSERY

Route 2 Cedar Rapids, Ia.

PFTZER JUNIPER CUTTINGS.

6 to 10 ins. long, not trimmed. Well packed, \$10.00 per 1000. Cash with order.

KRONE'S FLOWER SHOP

4221 Grand Ave. Fort Smith, Ark.

HARDY PLANTS

BLEEDING HEARTS.

	Per 100
Dicentra spectabilis, 3 to 5-eye.....	\$25.00
Dicentra spectabilis, 5 to 8-eye and up.....	35.00
Dicentra eximia, 3 to 5-eye.....	15.00
Dicentra eximia, 5 to 8-eye and up.....	20.00

J. HENDRIKS, Grower Portage, Mich.

HARDY PLANTS—Continued

HARDY PERENNIALS.

Strong, rooted divisions, early spring shipment, March 25 to April 15. 300 at 1000 rate.

	Per 100	Per 1000
Anthemis Moonlight	\$8.00	\$75.00
Beechwood Challenger, bright red	6.00	50.00
Mt. Everest, good white	6.00	50.00
Sunset Pink, lavender-pink	6.00	50.00
Helenium Gartensoenne, golden-yellow	8.00	75.00
Polemonium Blue Pearl	8.00	75.00
Lychnis viscaria fl. pleno	8.00	75.00
Chrysanthemum		
Algonquin, early dbl. yellow	6.00	50.00
Autumn Lights, copper-bronze	6.00	50.00
Little Goblin, bronze pompon	6.00	50.00
Ruby Pompon, good red	6.00	50.00
Little Goblin, bronze pompon	6.00	50.00

PLANE VIEW NURSERY Newport, R. I.

POLEMONIUM BLUE PEARL.

Strong, 1-yr., field-grown, for early spring shipment. 300 at 1000 rate.

A very fine hardy perennial, sun or shade. Blue flowers on 16-in. stems, May and June. When finished blooming, this Polemonium resolves itself into a 6-in. tuft of dark green, fernlike foliage that gives sales appeal even when not in bloom.

PLANE VIEW NURSERY Newport, R. I.

COLORFUL MUMS.

Strong field-grown clumps of 150 colorful hardies from our test gardens. Available now for winter propagation. Write today for descriptive price list.

PHAIRIE SOUTHWEST FLORETUM R. F. D. 1, Box 103 Fall River, Kan.

PERENNIALS

New and Standard Kinds.

A most modern and complete selection.

New Wholesale List now ready.

Send for your Free Copy Now.

CARROLL GARDENS

Box 15 Westminster, Md.

BLEEDING HEARTS. Each

Dicentra spectabilis, 3 to 5 eyes \$0.25

Dicentra spectabilis, 5 to 8 eyes .35

Well developed, field-grown roots.

CASHAR W. EVANS, Selbyville, Del.

America's Best Source for Hardy Plants Is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

Fansies, perennials and rock plants in wide variety. Send for catalog.

PITZONKA'S PANSY FARM

Bristol, Pa.

ROSEBUSHES

OHIO'S OLDEST NURSERY OFFERS YOU A FINE LIST OF HYBRID TEA ROSES.

Per 100 Per 1000

No. 1 \$37.50 \$350.00

No. 1 1/2 32.50 300.00

Aml Quinard (red) Pink Radiance (pink)

Etoile de Hollande Caledonia (white)

(red) K. A. Viktorja (white)

Grenoble (red) Golden Salmon (yel.)

Polinettia (red) Luxembourg (yellow)

Red Radiance (red) Roslyn (yellow)

Editor McFarland Condesa de Santiago

(pink) (multicolor)

Margaret McGredy Tallman (multicolor)

(orange) Paul's Scarlet (red)

American Beauty Ideal (red)

(red) Golden Salmon

Proa Hoover Triomphe Orleansais

(multicolor) (cherry-red)

Sœur Therese (yel.)

Est. 1877

CALL'S NURSERIES, Call Rd., Perry, Ohio

ROSES.

The newest varieties of Roses. Hybrid Teas, Everblooming, Floribundas and Dwarf Polyanthas in the best novelties.

Large quantities of greenhouse varieties which can be imported to America, remaining under the phytosanitary control for two years.

SPECIAL CONDITIONS

FOR THE FIRST TRIAL ORDER.

Price: \$20.00 per 100, budded on Rosa canina, free European port, free packing with order of 5,000 bush roses.

Novelties: \$1.00 each.

30,000 Peace available.

ALFRED LAMESCH (Est. 1871)

23 Rue de Beggen

Dommeldange, Luxembourg

ROSES.

Come to the source for field-fresh, freeze-free stock, popular garden favorites. Trade list for licensed nurserymen, florists, dealers only.

ARP NURSERY CO.

Box 867 Tyler, Texas

ROSEBUSHES—2-yr. plants, grown right, graded right, packed right. Very complete assortment varieties. Ask for price list and book your requirements now.

ROSEMONT NURSERIES

D. L. Thompson, Mgr.

Box 839 Tyler, Tex.

ROSEBUSHES.

Magna Charta, XXX (forcing grade).

\$40.00 per 100.

Cash with order.

CALL'S NURSERIES

Call Road Perry, Ohio

See our display ad in the December 15 issue, page 33.

OSARKS PLANT FARMS, Inc.

Seminole Dr. Springfield, Mo.

NORTHERN OHIO FIELD-GROWN ROSES.

Write for list.

LESTER F SQUARE NURSERIES

Wholesale Growers

Painesville, Ohio

SEEDS

FRESH COLLECTED, 1949 CROP.

Per lb.

Cornus florida, dried berries \$0.75

Viburnum dentatum, dried berries .75

flex opaca, fresh seed berries .65

flex opaca, clean seeds .300

WILLIAM J. WRIGHT

R. D. 1 Bridgeton, N. J.

SEEDS.

Dried Nandina berries, 1949 crop, 1 to 4 lbs., \$2.75 per lb., 5 lbs. and over, \$2.50 per lb. Express charges collect. Cash with order.

ANDREWS' NURSERY

Box 422 Chapel Hill, N. C.

SHRUBS AND TREES

NURSERY-GROWN STOCK.

Cornus florida.

White Flowering Dogwood.

Per 100 Per 1000

6 to 12 ins., s. \$2.50 \$20.00

12 to 18 ins., s. 3.50 30.00

18 to 24 ins., s. 4.50 40.00

2 to 3 ft., br. \$0.20 ea.

3 to 4 ft., br. .25 ea.

Ligustrum sinense

Amur River South Privet.

6 to 12 ins., s. 4.50

12 to 18 ins., s. 6.00

18 to 24 ins., s. 10.00

Juniperus virginiana.

Red Cedar.

6 to 9 ins., tr., x. 5.00 40.00

9 to 15 ins., tr., x. 6.00 50.00

15 to 18 ins., tr., x. 7.00 60.00

All stock below is first-quality, collected

stock.

Tsuga canadensis.

Canadian Hemlock.

4 to 8 ins., s. 2.00 15.00

8 to 12 ins., s. 3.00 25.00

12 to 18 ins., s. 4.50 40.00

18 to 24 ins., s. 6.00 55.00

Hex opaca, American Holly.

Kalmia latifolia, Mountain Laurel.

Rhododendron maximum, Rosebay Rhodo.

4 to 8 ins., s. 2.50 20.00

8 to 12 ins., s. 3.50 30.00

12 to 18 ins., s. 5.00 45.00

18 to 24 ins., s. 7.00 65.00

CUMBERLAND PLATEAU NURSERY

York Route Crossville, Tenn.

HYDRANGEAS.

Well branched, healthy French Hydrangeas grown in gallon cans, 5 or more branches per plant. Shipped 4 plants per carton.

\$6.00 per dozen.

F.O.B. Scottsville.

VERHALEN NURSERY CO.

Scottsville, Texas

Your Profits Grow in Verhalen Plants.

HEDGE PLANTS.

Strong, 1-yr., field-grown plants.

Per 1000

Rooted cuttings \$10.00

Grafting size 25.00

6 to 12 ins., 2 br. 15.00

12 to 18 ins., 2 br. 25.00

12 to 18 ins., 3 br. 30.00

18 to 24 ins., 2 br. 30.00

18 to 24 ins., 3 br. and up. 40.00

Row-run, as they are pulled. 25.00

5 per cent discount for cash with order.

Our new catalog mailed on request.

BOYD NURSERY CO.

P.O. Drawer 71 McMinnville, Tenn.

Russian Olive Seedlings.

Per 1000

6 to 12 ins., 1-yr. \$10.50

12 to 18 ins., 1-yr. 16.80

18 to 24 ins., 1-yr. 24.00

2 to 3 ft., 1-yr. 35.00

Chinese Elm Seedlings.

12 to 18 ins., 1-yr. 8.20

18 to 24 ins., 1-yr. 12.00

Silver Maple Seedlings.

12 to 18 ins., 1-yr. 10.80

18 to 24 ins., 1-yr. 16.80

FRANK MILLER NURSERY

R.R. 1 Manhattan, Kan.

CHINESE ELM SEEDLINGS.

Per 100

2 to 3 ft. \$12.50 3 to 4 ft. \$15.00

4 to 5 ft. 20.00 5 to 6 ft. 25.00

6 to 8 ft. 50.00

BLUE RIDGE GARDENS

Route 4 Roanoke, Va.

FIRST-CLASS NURSERY STOCK.

Abelias, Azaleas, Baker's and Blue Spire Arborvitae, Crape Myrtle, Camellias, Gardenias, Holly, Junipers, Magnolia grandiflora and nigra, Pyracantha in cans, Wistarias, Yaupon and much other fine stock. Bring your trucks.

SARVER NURSERY CO.

P. O. Box 7052 Dallas 9, Tex.

Phone: D4-2192

TAXODIUM DISTICHUM—We can furnish this scarce and beautiful tree in sizes 3 to 4 ft. and up to 7 ft., B&B. Our plants are bushy and straight.

ACER SACCHARUM—We have many thousands of these in all sizes from 3 to 12 ft. The finest lot we ever saw.

THE WING NURSERIES

Mechanicsburg, Ohio

RED JAPANESE MAPLE SEEDLINGS.

Carefully selected for good red color.

Per 100

Acer palmatum atropurpureum

10 to 12 ins., XX \$40.00

8 to 10 ins., XX 30.00

6 to 8 ins., XX 25.00

ELWOOD HUBBS

204 Delaware Ave. Palmyra, N. J.

POPLAR TREES

Per 25 Per 100

Chinese Lombardy, 4 to 5 ft. \$3.75 \$10.00

Lombardy, 8 to 10 ft. 10.00 30.00

Lombardy, 6 to 8 ft. 6.25 20.00

Lombardy, 4 to 5 ft. 3.75 10.00

Lombardy, 2 to 3 ft. 2.50 5.00

PONZER NURSERY Rolla, Mo.

ORNAMENTAL TREES.

Hard Maples, American Elms, Sycamores.

4 to 6 ft., 35c ea.; 6 to 8 ft., 60c ea.;

8 to 10 ft., 90c ea.; 10 to 12 ft., \$1.15 ea.

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

VINES

GRAPEVINES.

Concord, 2-yr., No. 1, \$45.00 per 1000.

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

SUPPLIES

DAHLIA OR TREE LABELS.

Price per 1000

Plain Painted

3 1/2 x 5 ins., notched, not wired \$2.50 \$3.00

3 1/2 x 5 ins., wired, copper .330 3.80

POT LABELS.

4x4 ins. (cartons 1000 each) .300 3.30

5x5 ins. (cartons 1000 each) .330 3.80

6x6 ins. (cartons 1000 each) .350 4.00

Price per carton.

8x8 ins. (cartons 500 each) .250 3.00

10x10 ins. (cartons 500 each) .300 3.50

GARDEN STAKES.

Price per carton.

8x 3/4 ins. (cartons 250 each) .200 2.25

10x 1/2 ins. (cartons 250 each) .225 2.50

12x1 1/2 ins. (cartons 100 each) 1.50 1.75

Our labels are perfectly white and smooth

on both sides and are pronounced by growers

the best and most economical.

YOHIO & HOOKER Youngstown 2, Ohio

ELECTRIC PROPAGATING KITS.

FOR GREENHOUSE BENCHES OR HOT-

BEDS—Each contains long-lasting HEAT-

SUM CABLE, Soil Thermostat, Pilot Lamp

Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.

16x12x2 1/2	.....	\$18.82 per 100
16x14x2 1/2	.....	24.98 per 100
20x14x2 1/2	.....	24.56 per 100
20x14x3 1/2	.....	28.58 per 100
22 1/2 x 18x2 1/2	.....	28.14 per 100
22 1/2 x 18x3 1/2	.....	32.63 per 100

All other sizes quoted on request. Prices F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per flat. Our flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

HIGHTOWER BOX & TANK CO.
Birmingham, Ala.

CAMOSHADE.

WAR SURPLUS CAMOUFLAGE NETTING.

Just the thing for a new partial-shade house. Hundreds now in use for sun, wind and frost protection. They are being used to shade azaleas, camellias, mums, seed beds, cuttings and tender plants. Make attractive covering for salesyards. Also for all other uses in the nursery and floral industry where partial shade and plant protection is necessary. Treated against mildew and rot. Will last for years. Most economical to use. 3 sizes available now. F.O.B. our shipping point. Supply limited.

22 ft. x 22 ft., \$ 8.25 each
22 ft. x 29 ft., 9.95 each
36 ft. x 45 ft., 14.25 each

WILSON BROS.
Newsome 6, Texas

MINNESOTA WHITE CEDAR FLATS.

12x16x2 1/2	.....	\$16.24 per 100
14x20x2 1/2	.....	20.00 per 100
14x20x3 1/2	.....	23.00 per 100

Other sizes quoted on request. Also crating and other lumber, spruce and pine. F.O.B. Cook, Minn. Please attach check.

H. C. HILL & SONS, Cook, Minn.

PEAT MOSS.

Highest-quality acid sphagnum peat moss weighing about 8 lbs. per loose bushel. 120-lb. hydraulic-compressed bales, \$3.25 each; 10 or more bales, \$3.00 each. Large burlap half-bale bags, \$1.60 each; 10 or more, \$1.50 each. COLBY PIONEER PEAT CO., Inc.
Hanlontown, Iowa

HARDWOOD CUTTING MACHINES.

Save time, save labor, save money. Use Wilson's Hardwood Cutting Machine to make up your cuttings. Cutting blades made of best steel, sharpened and will keep a keen cutting edge. Particulars on request.

RUSSELL WILSON
Winnboro, Tex.

BLACK MAGIC PEAT MOSS.

Mixed with soil for potting plants. Aerates, lightens soil and holds moisture. Keeps plants flourishing.
90c per bu., 10 bu. for \$7.50. F.O.B. Rogers, Ark.

BENTON COUNTY NURSERY CO., Inc.
Rogers, Ark.

TREE DIGGERS.

The Tree Digger gets all the roots with your Fruit Trees, Shade Trees, Flowering Shrubs, Rosebushes, etc. Nursery stock properly dug with all the roots means satisfied customers. Particulars on request.

RUSSELL WILSON
Winnboro, Tex.

WISCONSIN'S QUALITY SPHAGNUM MOSS.

Clean, long-fibered, solidly packed in burlapped or wired bales of standard size, direct from drying beds. None better. Trucked when feasible.

WARRENS MOSS CO., Box 7, Warrens, Wis.

PRINTING.

Full-color printing of catalogs, pamphlets and folders. Full-color picture tags and labels of Roses, Fruits, etc., for individually wrapped Nursery stock. Samples available.

THE COLOR PRESS

Winnboro, Tex.

HIGH NITROGEN HORTICULTURAL PEAT.

Unexcelled for soil-improving work. Used by leading growers for a quarter century. One 3-bushel bag, \$1.25; 10 bags, \$1.15; 25 bags or more, \$1.00 each.

COLBY PIONEER PEAT CO., Inc.
Hanlontown, Iowa

ELECTRIC SOIL HEATING KITS.

Dependable "G.E." units for hotbeds and greenhouses at low wholesale prices. Write for free "Soil Heating Bulletin."

FULGHAM, P. O. Box 497, McComb, Miss.

2000 SEED BED SASH, slightly used, 3x6 ft., 18 lights, steel or hardwood braced, 1% stock shingle-fashion glass. Farming Division, GENERAL CIGAR CO., Inc., P.O. Box 45, West Hartford, Conn.

GIBRALTAR Frost Covers pay for themselves. Economical, long-lasting. Ideal for windbreaks. 6 ft. wide; 50 ft., \$13.75; 100 ft., \$26.00; 150 ft., \$39.00. NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N.Y.

SPHAGNUM MOSS.

Write for prices on burlapped and wire-bound bales.

THOMAS RESHEL City Point, Wis.

PRINTING—Letterheads, Billheads, Statements, Cards, Envelopes, Tags, Blotters, Folders, Samples sent.

J. GARLAND HILL, Dept. A, Seaford, Del.

PAY LESS FOR WOOD LABELS. High quality, fully guaranteed. Write for prices and samples. ANTHONY & Co., Escanaba, Mich.

WANTED.

5000 Euonymus and Viburnum in lining-out sizes; also a few thousand liners in Beautyberry, American Holly, Japanese Dwarf Maple, Sweet Gum, Hydrangea, Spiraea, Lonicera, Barberry, Hackberry, Boieana Poplar, Blue Spruce, Concolor and Douglas Fir, Upright and Spreading Yew. EGYPTIAN NURSERY & LANDSCAPE CO. Farina, Ill.

WANTED.

10,000 Alba Boieana Poplar, cuttings.
5000 Alba Boieana Poplar, 3 to 4 ft.
100 Silver Poplar, 5 to 6 ft.
100 Norway Maple, 7 to 8 ft.

GREEN ACRE NURSERY
R.R. 1, Box 114 D Colorado Springs, Colo.

NURSERY STOCK WANTED.

Azalea Mucronulatum.
Sizes, 12 ins. and up.

Vinca minor, Bowles variety.
Field clumps.

THE PETER CASCIO NURSERY
2600 Albany Ave. West Hartford 7, Conn.

WANTED.

10,000 each, Canadian Hemlock, 6 to 12-in. transplants, and Colorado Blue Spruce, 4 to 8-in. transplants.

SUNCREST EVERGREEN NURSERIES
Box 643 Johnstown, Pa.

WANTED.

1000 Moline Elms.
6 to 8 ft. and 8 to 10 ft.

Send surplus list.
L. E. STONE & Co., Inc.
Bensenville, Ill.

P.O. Box 516

HOW TO KEEP AWAKE IN THE WINTER.

[Concluded from page 17.]

undersell him. When you have this competition to meet, advertise your services and the quality of your stock, using just as large advertising space as he does in the same papers, and you will probably do all right in your sales. Many orders are referred to me by local stores when they do not have the items ordered. In fact, one manager indicated that he would welcome the opportunity to have me manage his department for him. I understand that nurserymen are managing such departments in one or two large cities. Anyway, these are things to think about in the winter and not in the middle of April.

One day this winter take your catalog file out and go over the catalogs with a fine-tooth comb. It is more than likely that you will find some items you have been looking for and some you had not thought of before. Maybe some nurseryman a few miles away has just what you want.

Do you have a budget? It is a good idea at least to hazard a guess as to how much you can put into new equipment and lining-out stock for next spring. At least, if an opportunity comes up to buy something, you can decide a little better if it is advisable for this season. These are a few of the things I hope to do this winter, either sitting in the office or at home. There are many other things to do outdoors, and these are usually individual problems, depend-

ing upon your nursery and your equipment. Briefly, the following are some things I have written down for this winter. I may not do all of them, but at least some will be accomplished:

Paint the office and buy new shades.

Rewire the storage for electricity, as dampness has corroded the wiring.

Repair the door on the garage which was damaged last summer.

Sharpen axes, saws and tools of all kinds. Check up on tools for replacement.

Build a tree mover to go on the truck. (I saw a homemade one that worked fine and only cost \$250.)

Haul manure from near-by farm, which sometimes may be had free for hauling.

Buy an adequate supply of burlap and have it cut to size. A local mill sells me the bags at fifty per cent lower than ready-cut burlap.

Work out a complete spray schedule for the nursery and post it in the work shed. Check over sprayer and order spray materials.

Anticipate repairs and overhaul tractors and trucks. Recap tires while trucks are not active.

Make list of stock to be dug to go in spring storage. Also make a list of all items to be potted.

Make a list of all lining-out items purchased and decide exactly where to put the stock, how far apart, etc. If you do not the chances are ten to one that the stock will come in one day in spring when you will be so busy you will have the men put the stock in wherever you see an open space.

Few of us have an ideal arrangement of buildings and parking space. You may not be able to do anything about it at present, but if you get any ideas for the future, make a plan of what you would like, and someday you may work toward what you want. If you never have a plan to work toward, it is a good chance that nothing will ever happen.

Every boy scout knows that if you rub two sticks of wood together long enough, there may be a spark, which may ignite the fire. Sometimes we may have to do a lot of thinking before anything happens. Imagination is the stick we need to rub on. We can be like an advertising agency, and hold an idea conference with ourselves. Put down every idea of which you can possibly think. The more impossible, the better it may be. Write down 100 ideas. It may be the one hundredth idea that will be the one to help your business, so that someday, sooner than you expected, you can pay off the mortgage.

Letters from Readers

CHECK PLANT NAMES.

Knowing of your campaign for many years to bring about a standardization of the names in the nursery trade, I write this. Last spring I finished the compilation of the "Plant Buyers Guide" (fifth edition of Manning's Plant Buyers Index) now being offered to the horticultural public as a service by the Massachusetts Horticultural Society. During the three years required for its compilation I inspected carefully many hundreds of seed and nursery catalogs.

I want to compliment the industry, sincerely. By far, most of the nurserymen and seedsmen use the technical and common names recommended by "Standardized Plant Names." However, a few still cling to long-outmoded scientific names. Also, a few still prefer to use common names of definitely local origin or to "manufacture" their own for various reasons.

Likewise, a few failed to check their names at all, one grower having the same plant in his catalog under five different names. Obviously, this was not done on purpose. However, these things do create confusion, and I recommend strongly that everyone in the business check his names against "Standardized Plant Names" or this new guide to avoid future difficulties. Fortunately, most dealers are conscientious in compiling their catalog, and for them I have only words of praise.

Edwin F. Steffek,
Horticulturist.
House Beautiful Magazine.

A CANADIAN ANSWER FOR TRAINED PERSONNEL.

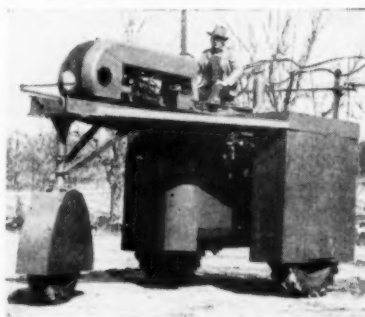
In the September 15 issue of the American Nurseryman was published an address by Dr. N. D. Peacock, vice-dean of agricultural instruction at the University of Tennessee, which covered some of the problems of obtaining trained nursery personnel. In his discussion, he asked this question, "Cannot a carefully planned training program make it possible to avoid many costly mistakes and save

much time?" Dr. Peacock also pointed out the importance of developing training programs which combine a balanced diet of theory and practice. Last summer, while visiting the beautiful Niagara park system, in and around the Canadian side of the Niagara river, I found one answer for training personnel which I believe is unique in America.

In 1936 the Niagara Parks Commission opened a "school for apprentice gardeners." The purpose of the school at the time was to train skilled men for the varied requirements of the Niagara parks. Since then this school has become the best horticultural and landscaping school in Canada. Training there has reached such a high standard that graduates are sought eagerly throughout all Canada and even in the United States.

During two pleasant and rather lengthy visits to this school, I found that it had discovered a real answer to the problem of combining effectively the theory and practice of horticulture.

The Niagara Parks School for Ap-



SELF-PROPELLED NURSERY SPRAYER

Clearances up to 78 inches.
Sprays Four Rows at One Time.

Cultivator can be attached.
For Information Write:
VICTOR FRIDAY, COLOMA, MICH.

Rabbit Scat



PROTECT YOUR PLANTS

the year-around with Rabbit Scat. A repellent, not a killer. Harmless to plants.

TRADE DISCOUNT
Nurserymen receive 40-25% off retail prices. Rabbit Scat retails for: 6-oz., \$1.00; 1-lb., \$2.50; 5-lb., \$10.00.
Also Dog-N-Cat Scat and Rainbow-Glo, the color intensifier of flowers.

GARDEN CHEMICAL CO.
3101 LUDLOW ST.
PHILADELPHIA 4, PA.

Readers are invited to contribute their views on trade subjects to this page. By the exchange of ideas and information, all are benefited.

prentice Gardeners has for its training ground 250 acres of land well situated near Niagara Falls. During the 3-year course the students spend much of their time building new gardens on this land and maintaining and improving those already planted. Of course, all of the wide horticultural facilities of the Niagara parks are at their disposal. Their training emphasizes four fields of study, which are as follows:

1. A knowledge of plants and their habits.
2. Garden design and the artistic use of plant materials, even to flower arrangement.
3. Floriculture.
4. Arboriculture.

What could be closer to the requirements for a trained nurseryman?

Entrance requirements call for three years of formal high school training and some practical horticultural background. After three years at the Niagara parks school, which are three years of lectures, demon-

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GRINDER
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SCREEN

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Mixes, or
Screens

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Discards Rocks and Trash
Grinds manure, sod, tough and wet materials through rollers.

Screens through perforated screens. Makes perfect compost of any material used for compost no matter how hard or wet or stringy.

Ruggedly built for hard usage and to break up hard and tough materials. Long life and low operating cost.

FREE New compost circular. Facts of interest and real help to growers. Write for your copy. No obligation.

W-W GRINDER CORP.
Dept. F Wichita, Kansas

NURSERY TAGS

Suitable for Labeling

Trees - Shrubs - Plants -
etc.

Convenient - Economical

PREMIER SOUTHERN TICKET CO., Inc.
1623-31 Dana Ave. CINCINNATI 7, OHIO

FOR SALE

Opportunity knocks but once, they say. Here is a **LOUD KNOCK** for one or two young and vigorous men with ambition and ideas . . . to acquire half or whole interest in a prosperous **RHODE ISLAND** nursery corporation. 32 acres of varied stock; excellent cash and general sales record. Knowledge of plants and landscape design necessary. If you are at all interested, **DON'T PASS THIS UP**; it really is **GOOD**. Now is the time to buy in order to get full benefit of 1950 spring business. Full details upon request. Address Box 668, care of American Nurseryman.

FOR SALE

Established, profitable nursery and greenhouse properties—Long Island, New York state, New Jersey, Pa. and Conn. Especially good buys at New Brunswick, N. J., Williamsport, Pa., and Farmingdale, L. I. Good business opportunities. Write for details.

HORTICULTURAL REALTY CO.
Mitchell W. Smith, Realtor
135-18 Northern Blvd.
Flushing, N. Y.

OPPORTUNITY

Fifteen years ago I started a nursery as a hobby, and other business now necessitates my personal support. Will give a nurseryman with selling and managing experience one-half interest in all stock, sold at cost to him. This is the only capital required to carry on business. Residence furnished to man with family. Nursery located on highway 66; 300,000 population in a radius of 25 miles. Must be sober and references required.

MAX MEYER NURSERY
Sapulpa, Okla.

FOR SALE

Nursery. 81 acres, modern house, greenhouse with office and tool shed. Located 20 miles from Flint, Mich. Situated on new main highway. 2½ miles from city of 5000. Price \$30,000.00, \$16,000.00 down.

Address replies to Box 675, care of American Nurseryman.

FOR SALE

Landscape and nursery business, well located in central Illinois on 4 good highways. Stock of all kinds. Had health and age are reasons to sell or trade for good income property. Doing a good business; about \$30,000.00 a year. Terms to the right party who wants to buy a good business. Address Box 665, care of American Nurseryman.

FOR SALE

Camellia and Azalea nursery. We are growers, wholesalers, retailers. Less than 15 miles from Los Angeles.

Here is your opportunity to relocate at a time when we are on the brink of the Camellia selling season. Other interests prevent sufficient personal supervision. Will sell all or in parcels. Cheap rent, water, etc. Write Box 670, care of the American Nurseryman.

WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: **\$3.00** per inch, each insertion.

Lines: **25¢** line; minimum order **\$2.00**

OPPORTUNITY

Profitable nursery business in one of the liveliest sections of the southwest, selling the year-around, mostly retail. Established over 20 years ago by present owner, propagating and growing choice ornamentals for the better garden trade. Profits very satisfactory; can easily be increased by aggressive management. Property consists of 20 acres; 2 sales locations, propagating house; 30,000 sq. feet of lath houses; abundance of shallow water for supplementary irrigation. Adequately staffed with excellent personnel. Membership in local, state and national trade organizations.

This is a first-class proposition. Sales records and income tax reports available for past decade; can stand closest investigation. Owner will sell outright or consider taking in one or more partners, qualified to take over active management.

If you have capital, executive ability, with knowledge of horticultural trade, it will be to your advantage to investigate. Write, giving information about yourself, in complete detail, and amount of capital you have to invest. You will then be contacted with fuller details of this business. Write Box 663, care of American Nurseryman.

HELP WANTED**NURSERY MANAGER**

Unique opportunity for one or more men (or women) with nursery know-how, of executive ability, to acquire part ownership in one of the finest nursery businesses in the southwest. Established by owner over 20 years ago; catering to the best garden trade and enjoying enviable prestige among fellow nurserymen and plant buyers. Doing a nice volume with satisfactory profits, which can easily be increased with more vigorous management.

Proprietor wishes to relinquish active management to younger, more energetic individuals who are stable and financially able to invest.

This is a going concern, now in full swing, beginning new season with large stock of choice plants. We are free from indebtedness or encumbrances. If you desire a secure future, have experience and ability and enjoy creative work, write, giving complete information as to experience, education, age, marital status, religion, etc., and amount of capital at your command, to Box 669, care of American Nurseryman.

WANTED

WILL PAY \$75,000 CASH

For landscape business or garden center, within commuting distance of New York city. State gross sales in answering.

Address Box 645, care American Nurseryman.

WANTED

Experienced nurseryman with \$5000.00 cash to buy out one-half interest in nursery consisting of approximately 20 acres, rich ground, 5-room house, 1 new truck, 2 rototillers, 2 new power mowers, office equipment, etc. Other partner specializes in sales promotion and advertising. Best location in the South. Write Box 677, care of American Nurseryman.

HELP WANTED

Position available for a man capable of estimating for and managing a landscape contracting concern which does large government work and other large jobs in New York city area. Person must be experienced in this particular phase of landscape contracting.

Since this position requires a man of experience and ability, an excellent salary will be paid. Applications will positively be treated confidentially.

Address Box 667, care of American Nurseryman.

SITUATION WANTED

Experienced, all-around nurseryman, age 33, twelve years on present nursery, desires to make change. Would like a steady and permanent position. Has had complete supervision of working-men, salesgrounds and planting jobs. Willing to work in nursery and do on-the-job planting. Ambitious, sober and reliable. Wife experienced in saleswork and taking orders for delivery. References. Please state proposition, salary and location in first letter.

Address Box 678, care of the American Nurseryman.

SITUATION WANTED

Single man, 30, with Master of Science in Landscape Design plus practical experience available. Can design and execute plans for all phases of landscaping including homes. References. Address replies to Box 676, care of American Nurseryman.

SUPPLIES FOR THE NURSERYMAN

PLAIN and CREPED
WATERPROOF PAPER
KRAFT WRAPPING PAPER—
GUMMED KRAFT TAPE
Paper Towels—Toilet Tissue

TWINES and CORDAGE
SISAL, COTTON, JUTE
Baler and Binder Twine
Manila and Sisal ROPE

Packing, Shipping and Storage Supplies for the Nursery Trade.

Write for samples and prices.

SCHWARZ PAPER CO.

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Branch Houses at: Madison, Wis.; Bloomington and Peoria, Ill.; Kokomo and South Bend, Ind.

strations, written tests and practical work, the successful students are granted "a diploma of gardening," which is a certain ticket for a good job. The highest graduate each year receives the special honor of being sent to the famous Kew Gardens in England for one year of training.

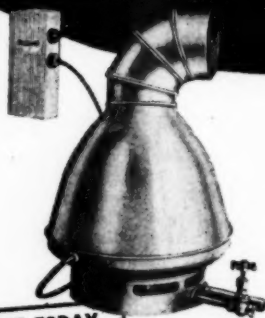
There are no fees necessary for this course, but as a sign of good faith and to cover breakages, a deposit of \$50, which is returnable at graduation, is required from each student upon entering. The students live at the school, where board and lodging are provided free of charge. In addition, a generous subsistence allowance of \$7, \$8 or \$9 per week is given each student, depending on whether he is a first, second or third-year student.

Each year only eight new students are admitted to the school. This means that they must be carefully screened for training. With such small numbers, the staff, consisting of university men who have had lengthy practical experience, is able to give close personal attention and intensive training. By means of lectures and demonstrations, the students learn theory and then go out into the gardens to apply it.

On the large grounds there are special rose gardens, a collection of 500 varieties of lilacs and peonies, almost as many varieties of iris, an orchard, vegetable and fruit gardens, an herb garden, perennial borders, an arboretum and wide plantings of all types of shrubs and trees, both deciduous and evergreen. The students learn methods of propagation in the coldframes and hotbeds. At Queen Victoria park near by, they have an opportunity to study specimens of practically every type of plant hardy in that temperature zone.

Each student spends considerable time during the winter months doing practical work in the ultramodern greenhouses at Queen Victoria park.

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- Inexpensive To Buy
- Inexpensive To Operate
- Easy To Install
- Automatic Controls
Maintain Proper Climate
for Plant Growth
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for Bulletins
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PAWTUCKET, R. I.

HORTICULTURAL PEAT

Wanted — Your 1950 Peat business

Better equipped than ever to serve you. Fine grind horticultural peat packed in veneer crates or bulk cars; coarse grind wet peat also in bulk cars. Samples, analysis and rates furnished on request.

GET OUR PRICES BEFORE YOU BUY.

GEORGIA PEAT MOSS CO., Inc.

LAKE PARK, GA.

Much of his remaining time during the cold weather is spent in the lecture room. There he studies fundamental gardening, vegetable and fruit gardening, fruit gardening, floriculture, plant diseases, soil chemistry, entomology and insect control, landscape art, arboriculture and tree surgery, horticultural chemistry, surveying and plant propagation. These are all closely akin to the requirements for trained personnel.

Everyone who has been closely connected with the nursery business certainly knows that a great amount of theory is essential for all key personnel. On the other hand, as Dr. Peacock mentioned, nothing can replace experience. At the same time, key nursery personnel in all but the largest nurseries has to realize that a great deal of hard physical work is necessary. A successful nurseryman must get down to mother earth, handle it, study it and learn to understand it. Many of us have done this the hard way by trial and error. It would be a wonderful advancement, therefore, if training centers similar to the Niagara Parks School for Apprentice Gardeners could be established at state universities, or at least in areas where large nursery developments are centered. Training schools of this type could go far to overcome the lack of practical experience now found in horticulture courses at many state agricultural colleges.

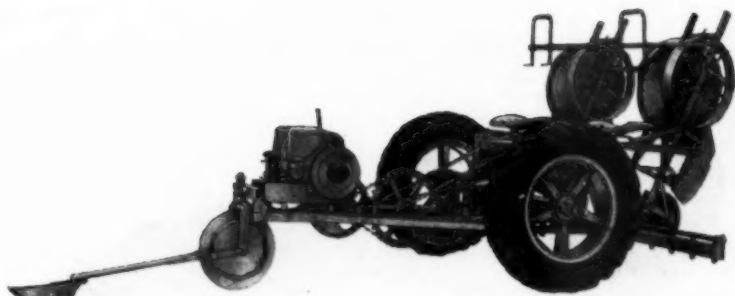
Aubrey L. Teal,
Arlington Nursery,
Reno, Nev.

NEWSPAPER FEATURES APPALACHIAN NURSERIES.

An illustrated feature story in the November 20 edition of the Sunday Patriot News, published at Harrisburg, Pa., told how 1,500,000 plants are grown annually at Appalachian Nurseries, Waynesboro, Pa., which are owned by W. E. Dick and W. J. Billerbeck.

All plants are produced from cuttings in a pure sharp sand obtained at York, with vermiculite added for moisture retention. About 225,000 plants can be accommodated in each of two 100-foot-long propagating greenhouses, with benches down either side. The nurseries also have two 100-foot coldframes and are building another 48x150 feet, with heating pipes in the ground. Temperatures of 38 to 45 degrees are sought in the new coldframe, which will be covered with glass in the winter and lath in the summer.

FRED J. TYLER, Perry, O., is spending the winter at Tice, Fla.



BETTER • FASTER • LOWER COST • TRANSPLANTING with the Holland Mechanical SEEDLING TRANSPLANTER

This machine is especially designed for transplanting all small coniferous seedlings . . .

- Eliminates all hand transplanting.
- Saves hours of tedious costly labor.
- Perfectly places and spaces every seedling.
- Increases survival percentage.
- Does a neat, fast, accurate job of transplanting.

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Photo by U. S. Forestry Service

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HYPONEX PLANT FOOD

CLEAN—ODORLESS—SOLUBLE—POWDER

USE HYPONEX to grow bigger and better flowers and vegetables in poorest soil—even in sand, cinders or water. Excellent fertilizer for trees, shrubs, lawns and houseplants.

USE HYPONEX for top dressing, seedlings, cuttings and transplants. Produce strong root systems and stems, also more and larger flowers and fruit.

SELL HYPONEX to your customers. Nationally advertised.

1 oz. packet . . . 10c.—packed 72 to case—wt. 7 lbs.
3 oz. can . . . 25c.—packed 36 to case—wt. 12 lbs.
7 oz. can . . . 50c.—packed 24 to case—wt. 14 lbs.
1 lb. can . . . \$1.00.—packed 12 to case—wt. 16 lbs.
10 lb. drum \$8.—25 lbs. \$15.—50 lbs. \$25.—100 lbs. \$40
Commercial growers and dealers receive 33-1/3% discount from the above retail prices.

BUY HYPONEX from your jobber or send \$1 for 1 lb. (makes 100 gallons). \$1 credited on first order for 1 drum or case.

HYDROPONIC CHEMICAL COMPANY, Inc.
Copley, Ohio

Book Reviews

NURSERY MANAGEMENT.

Filling a gap in the horticultural reference library, "The Principles of Nursery Management," by Dr. Willis P. Duruz, professor of horticulture at Oregon State College, has just come from the press, published by A. T. De La Mare Co., at \$3.50.

It will serve as a textbook for the student or the commercial beginner and will give useful information to the practicing nurseryman, though its scope is limited—the number of pages in the volume is 136, 6x9 inches. It contains thirty-nine illustrations.

Introductory chapters relate to the nature of the nursery business, the origin of classification of plants, and the evolution of nurseries. Subsequent chapters, each of ten to fifteen pages in length, are concerned with starting the nursery, the growing of seedlings, propagation by vegetative methods, culture in the nursery, moving and storing nursery stock, storage and shipping, pest control and plant quarantine, selling nursery stock and management of the business.

The author has been teaching this subject in both 1-term and 3-term courses for several years at Corvallis, Ore. Born in the east, at Rockaway Beach, N. Y., in 1896, he graduated from Rutgers University, obtained his M.S. degree at the University of California and his Ph. D. degree from Stanford University. Since then he has been teaching at the University of California and at Oregon State College, so that he has had acquaintance with the nursery business the country over.

An interesting feature of the book are the end papers, carrying double-page air views of the nurseries of Jackson & Perkins Co. and the Rosedale Nurseries.

ROMANCE OF THE ROSE.

For a beautifully printed little gift book, with several illustrations, "The Romance of the Rose," by Josephine Craven Chandler, just published by Charles T. Branford Co., Boston, Mass., at \$1.50, is timely and interesting. There is nothing in the book about botany or culture. Its forty-eight pages relate some of the romantic incidents in the history of the rose, including their use in Roman days, the collection at Malmaison for Napoleon's Josephine and the naming of the modern rose Peace on V-E day at San Francisco.

PRACTICAL NUT GROWING.

"Practical Nut Growing" is a useful booklet of sixty-four pages and cover for the guidance of beginners in nut culture. It was written by Gilbert L. Smith, of Benton & Smith Nut Tree Nursery, Wassaic, N. Y. Originally designed to be of help to the firm's customers, its advice and directions fit the needs of amateur gardeners or farmers who want to try a few nut trees.

The author discusses nut trees in general, the desirability of grafted trees, the species to plant, where to put them and the hardiness of different genera.

Chapters follow on planting, watering, pruning, spraying, fertilizing, grafting and rodent control.

While not enthusiastic about commercial orchard planting of nut trees, the author emphasizes their useful-

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Lawn Guards
Peony Supports
Row Markers



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LILY YEARBOOK.

Two years have passed since the founding of the North American Lily Society and evidence that the society is rapidly progressing is borne out by the wide range of well written articles currently featured in the 1949 yearbook, edited by George L. Slate and published by the society at Geneva,

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N. Y. The 143-page book contains forty-six articles by lily researchers and garden hobbyists that deal with specific cultural conditions for individual varieties, regional climatic adaptations of certain varieties and contributions of a romantic and whimsical nature.

Among the scientific articles are "A B C of Lily Culture," by Dr. S. L. Emsweller, of the United States Department of Agriculture, Beltsville, Md.; "Mosaic in Garden Lilies," by Dr. Philip Brierly, of the United States Department of Agriculture, Beltsville, Md., and "Variability in Liliun Leichtlini Variety Maximowiczii," by Dr. S. L. Emsweller and O. N. Neal, both of the United States Department of Agriculture, Beltsville, Md.

Other interesting articles are "The History of the Easter Lily Industry on the West Coast," by R. Ralph Clark, extension horticulturist, Oregon State College, Corvallis, Ore., and "A Historical Account of Liliun Candidum," by G. H. M. Lawrence, of Bailey Hortorium, Ithaca, N. Y. Reports of the 1948 meeting of the North American Lily Society, the field day of the society held at Vine-land Station, Ont., July 24, 1949, and the treasurer's report are included in the attractive green-bound book.

The lily yearbook is available to members of the society only. Annual membership dues are \$3, and inquiries concerning membership may be directed to Miss Norma G. Pfeiffer, of Boyce Thompson Institute, Yonkers, N. Y., secretary of the society.

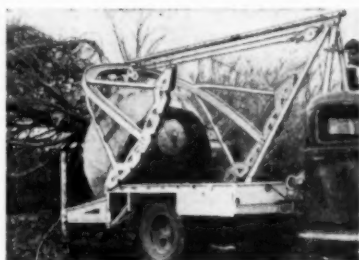
WESTERN PENNSYLVANIA ANNUAL MEETING.

[Continued from page 10.]

never less than two inches, and should never be allowed to grow over three inches tall.

Mr. Cooper cited the growth of athletic fields in Pennsylvania. From 250 to 300 fields were built the past year. Many of the fields and accessories cost over \$100,000, and one field in eastern Pennsylvania cost \$1,000,000. He advised more men to try this field, not only as original builders, but also on the renovation and maintenance end.

Among the guests were Prof. Robert P. Meahl and A. O. Rasmussen, of Pennsylvania State College; Henry R. Eby, Allegheny county agent, Homer Martz, farm and garden editor of radio station KDKA; J. W. Kallay, Donewell Nurseries, Painesville, O.; Russell Champion, Cham-



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pion Nurseries, Perry, O.; L. F. Palmer and Nelson Turnell, C. R. Burr & Co., Manchester, Conn., and Lester Freeland, Freeland Gardens, Erie.

WISCONSIN MEETING.

[Continued from page 8.]

systems, is a prime advantage. The use of aluminum pipe has accelerated the advance of this type of irrigating. One man can easily pick up with one hand a 4-inch aluminum pipe twenty feet long. Two men can readily move two 30-foot sections of 6-inch aluminum sprinkler line without uncoupling the sections.

The portable sprinkler line is equipped with riser pipes and sprinkler heads, mounted at 20, 40 or 60-foot intervals, depending upon the size of the head and the pressure at which it operates. The usual practice is to move the sprinkler line, from one setting to the next, a distance equal to about twice the sprinkler head spacing; i.e., if the sprinkler heads are spaced forty feet, the line is moved eighty feet.

The type of pump required for an irrigation system depends to a large degree on the water supply. Besides the selection of the equipment there are various problems sometimes met in regard to water supply. If water is to be drawn from a navigable stream in the state of Wisconsin, a permit must be obtained from the public service commission. If a deep well is used, permission is necessary from the state department of public health because of the possible effect on the ground water level. If one shares a lake with other property owners, their consent might be necessary if the lake level were affected.

Dr. Bruhn said the cost of providing portable irrigation approximated \$16 per acre. Operating cost per year averaged \$11 per acre plus \$1.50 per acre inch of water supplied.

He asserted that the potato growers in Wisconsin, from the production of 300 bushels to the acre on unirrigated land had pushed their returns to as high as 600 to 700 bushels per acre under fertilizing and irrigation. Michigan figures revealed that seventy-five per cent of the initial investment was returned in the first year.

J. R. Williams, Montello, added a brief comment on his operations. A large producer of vegetables for market, Mr. Williams has seventy-five acres under overhead irrigation and 100 acres in portable. Since irrigation permits more liberal fertilizing, he has been able to produce vegetables of large size and extra quality for local and distant markets. He

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by Norman Taylor. \$5.00.

HOW TO INCREASE PLANTS.

by A. C. Hottes. \$3.00.

PROPAGATION OF PLANTS.

by M. G. Kains and L. M. McQuesten. \$4.00.

NURSERY MANUAL.

by L. H. Bailey. \$5.00.

THE PRUNING BOOK.

by Gustav Wittrock. \$3.00.

MAINTENANCE OF SHADE AND ORNAMENTAL TREES AND SHRUBS.

by P. P. Pirone. \$6.50.

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by Bernard Dodge and W. L. Rickett. \$6.00.

SPRAY CHEMICALS AND APPLICATION EQUIPMENT.

by J. A. McClintock and W. B. Fisher. \$6.25.

THE BOOK OF TREES.

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by J. Horace McFarland. \$5.00.

LILACS FOR AMERICA.

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MANUAL OF CULTIVATED PLANTS.

by L. H. Bailey. \$17.50.

MANUAL OF CULTIVATED TREES AND SHRUBS.

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also has two greenhouses and grows some stocks and snapdragons, carried to northern Wisconsin towns by his trucks.

Exhibitors.

An adjoining room containing exhibits was well inspected by the nurserymen. From the state entomologist's office, at Madison, came an educational exhibit, containing specimens of insects or diseases on shrubs and trees, with indicated controls.

Commercial exhibits were the following: John Rauschenberger Co., Milwaukee, paper and twines; Ideal Equipment Co., Port Washington, Wis., irrigating equipment; John Effa, Chicago, Ill., irrigating equipment; Armour Fertilizer Works, Chicago, plant foods; Fertilo Corp., Milwaukee, plant food; Hunter Tractor & Machinery Co., Milwaukee, portable saws and other machinery; Ross Daniels Co., Des Moines, Ia., Ross root feeder; Singer Bros., Milwaukee, organic manure; Golf & Garden Equipment Co., Elm Grove, nursery supplies and equipment; Wisconsin Peat Moss Corp., Oconomowoc, peat moss, and L. Teweles Seed Co., Milwaukee, lawn seeds.

Landscape Conference.

The second annual conference for landscape gardeners held December 9 started with a shrub identification contest. Kenneth Greaves offered an address as chairman, on the proposal to form a Wisconsin landscape association. An organization report was given by Alex Klokner, followed by the election of a chairman for 1950.

Short talks occupied the remainder of the sessions, "Lawn Construction in Wisconsin," by Alex Close; "Killing Weeds in Lawns," by John McDonald; "Moving Trees with Frost Ball," by C. L. Wachtel, and "New Perennials for Wisconsin," by E. H. Smith.

CONSTRUCTION of a new greenhouse for the Brampton Nursery, Toronto, Ont., is nearing completion. This will bring its total area under glass to 17,000 square feet.

HAROLD C. POYER, who resigned as secretary-treasurer of Coe, Converse & Edwards last spring after five years with that firm, now operates the Poyer Landscape Service, at Fort Atkinson, Wis.

NOW operating at 5200 Wilson road, Minneapolis, Minn., as the Halla Nursery, S. E. Halla is preparing to erect a building for storage and a garden center, handling retail garden supplies of all kinds.

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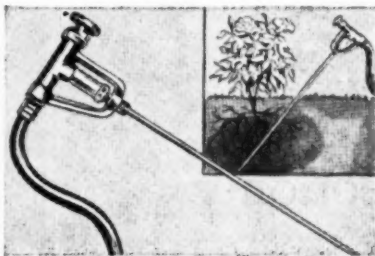
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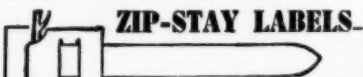
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**NURSERYMAN'S SON
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The annual award of \$100 given by the Connecticut Nurserymen's Association to a student majoring in nursery management at the Ratcliffe Hicks school of agriculture, University of Connecticut, for scholarship, character and participation in student activities was given recently to Anthony Cannavo, Winsted. The award was formally announced by A. I. Mann, director of the school.

Mr. Cannavo has worked in his father's nursery, the Winsted Nursery, and enrolled in the 2-year course in nursery management soon after receiving his discharge from the navy. In addition to being a good student, Mr. Cannavo was chairman of the nursery management exhibit at the fall horticulture show, is president of the School of Agriculture Association, an associate member of the student senate and a member of the Newman Club and the ski club.

SOUTHWESTERN NEWS.

Cook & Cone, Ottawa, Kan., submitted the low bid of \$3,572 on a roadside improvement job in Jewell county, Kansas. A bid of \$6,080 submitted by Deer Landscape Co., Neodesha, Kan., was low on a roadside improvement project in Sumner and Sedgwick counties, Kansas.

Milton B. Wilkerson, of the Wilkerson Nursery, Columbia, Mo., is starting a nursery at Kampsville, Ill.

The regular monthly meeting of the Kansas City Association of Nurserymen was held at the Wagon Wheels Inn, Overland Park, Kan., December 13.

The Association of Kansas Landscape Architects will hold its winter session at Manhattan, February 12. J. P.

A 2-PAGE article in the garden section of the Oregon Journal for December 4 featured Peterson & Dering, rose growers at Scappoose, Ore. The article included pictures showing digging and storage procedures.

WHEN W. A. Coupanger winds up the season at the Elmore Nursery, Elmore, Minn., he supplies Christmas trees at wholesale, cutting them from leased land in Montana and shipping as far as Chicago. After the holiday his men are kept busy making chicken coops of cottonwood, again in wholesale quantities, for spring sales. Thus he keeps a sizable group of men on the pay roll the year around.

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PLANT NOTES.

[Continued from page 26.]

ed out, first of all, that he has the best of the lot, according to most observers. For the benefit of readers who are not acquainted with the native of our eastern states, let me add that it grows in moist woodlands, where it reaches six or eight inches in height, with a cluster of five to nine leaves at the top of the stem, which in turn supports little white starry flowers in summer. It will be inferred from the description, and rightly, that here is an unshowy plant, but it may not be apparent from the same description that here is also a charming little plant for a leafy spot in shade where it can find an abundance of moisture without being boggy.

The only other starflower one is apt to find is *T. europaea*, and one would scarcely need it unless the form with pink flowers could be found. I have never seen it, but it is said to be attractive. However, there is a western American form of it, variety *latifolia*, which varies from white through pink to rosy-red. Years ago I had plants of it from a collector in Oregon, and they had a pleasing deep pink flower. It was one of the loveliest starflowers that I have seen. And then there is variety *arctica*, a real dwarf from the north, but of it I cannot speak from experience. It is said to be quite dwarf, with white flowers.

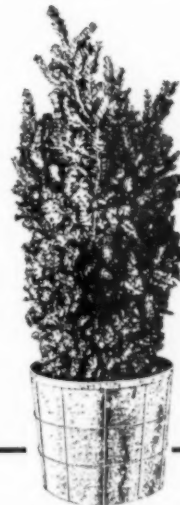
Trientalis belongs to the primrose family. The name comes from the Latin, meaning a third of a foot, probably referring to the height of the individual plant on which the genus was based.

Ampelopsis Heterophylla.

Not often do I go beyond the bounds of herbaceous plants in these notes, even though I sometimes have the urge, but occasionally the urge is too great to resist when I see a planting of more than ordinary beauty. And that happened this fall when I saw a garden where *Ampelopsis heterophylla* was used for several purposes. It would be difficult to find a garden, no matter how small it might be, where there would not be a place, or perhaps several places, for this plant. To cover low walls, to trail over rocky places or to cover trellises, there is material in the species to suit most requirements. There is some difference in density of foliage in the different varieties and perhaps in the quantity of fruit produced. I have seen *A. heterophylla* give grand autumn show when loaded with harvests of lilac to blue berries. The plant comes readily from seeds, especially if sown in autumn, often blooming

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PEORIA 2, ILL.

the second year. It also may be grown from cuttings, either hardwood or green wood.

Evening Primroses.

I am grouping here answers to two recent inquiries on evening primroses, with the hope that the inquirers will find their information.

The first is for a note on *Oenothera hartmannia*. Were it not for its "hungry ambition," this evening primrose would be near the head of my list in this class of plants. As it stands, it is a really good plant for unconsidered places where the soil is light and the sun is hot. One must remember, though, that when happily placed it does have ambitions to occupy all the space in its vicinity and will surely cause trouble if there are any delicate plants in its neighborhood, running in, around and under everything near it.

As it grew here, *O. hartmannia* reached to a height of a foot or perhaps slightly more, producing its pure white flowers, two to three inches across, for a long time in summer. The flowers change to pink with age, and twenty-four hours is often old for an evening primrose, as you probably know from experience. I have not seen for many years its variety *rosea*, which had flowers pink from the time of opening, and I wonder if it is still available. If so, it should make a good companion for the white of the type. Both may be multiplied by division, and preferably in early spring, according to experience here.

The second inquiry was on *O. caespitosa*, a plant widespread from South Dakota, west and south. It is, incidentally, sometimes known as *O. marginata* and by "the splitters" as *Pachylophus caespitosus*.

At the time we had a rather full collection of evening primroses in our experimental garden, this was just about the favorite of the large-flowered, low-growing kinds. That was true, no doubt, because of its sturdy constitution, which allows one to enjoy it without a lot of fuss. Its beauty of flower, which is white, fading to pink, as usually seen, or always pink in others, large in size, to three inches across, and quite stemless, and its habit of blooming during June and July give it special value in my eyes.

Although little more than a biennial, or a short-lived perennial at best, *O. caespitosa* may be kept going in the garden by detaching the rosettes which appear at various distances from the parent and growing them on. It may be grown from seeds in a commercial way, when these are available. Like most of the night-

blooming kinds, and there are no exceptions to the rule that come to mind at the moment, it never naturally set seeds in this garden. I suppose this was because it lacked the fertilizing agent of its home in the west. Artificial fecundation may be resorted to in that case, or one may depend upon seeds from collectors. According to experience here, it is a plant of much possibility in the neighborhood nursery. Although spoken of in the literature as a day bloomer, it was seldom open after 10 a. m. here, except in cloudy weather.

Window Garden Plants.

An Ohio reader, who has a small greenhouse in which he has been growing African violets as a side line to his hardy plant trade, says that he finds the market for violets dwindling, perhaps from overproduction. He asks for a substitute.

In my opinion the African violet is being overstressed and overdone. True, it is a splendid window garden plant; yet the surest way to head a plant for the discard pile is to make it so common that people become tired looking at it. Just as a suggestion, why not use part of your space for dwarf geraniums? If enough interest is shown I should like to do a story on window garden plants for the neighborhood nurseryman. It is a subject that has long been close to my heart.

Symphyanandra Ossetica.

A New Jersey reader who has been experimenting with the symphyandras for some time, finding one or two of them more than merely interesting, asks if *S. ossetica*, which has been mentioned in English publications and of which he now finds seeds listed in a European list, is as good as they say it is.

He is indeed fortunate to find it, because it has eluded my eyes since I found, grew and then lost it about fifteen years ago, and I think he will make no mistake if he adds it to his collection, especially if his clientele includes gardeners who are willing to give their plants a little more than ordinary care. I find the following note in my files, which was made in 1931 following an experience with the plant with seeds received from an Austrian correspondent.

This is one of the better symphyandras, though unfortunately not easy to come by. In this trial it grew six inches tall and hung out a profusion of lovely, pale blue bells in early summer, making it a picture indeed. It is a really choice plant which requires a little more care than most of its relatives, needing more mois-



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ture at the roots than we are generally blessed with in our midwestern summers. From its behavior during the one trial it had in this garden, I should say that it needs a little shade during the middle of the day and enough humus in the light soil that seems to be its desire to hold moisture between sprinklings in dry weather. Of course, it would probably do fairly well without these precautions, but fairly well does not satisfy the enthusiastic gardener.

NEBRASKA MEETING.

[Concluded from page 9.]

the grounds and buildings into one pleasing and useful composition.

Wayne C. Whitney, popular extension horticulturist, University of Nebraska, Lincoln, talked about "Aftercare of Newly Planted Nursery Stock." A friendly bombardment of wisecracks went back and forth between speaker and audience before his more serious remarks. Mr. Whitney stressed the importance of telling planters about cutting back newly planted deciduous stock. He said he had seen many planting failures caused by not cutting back. He also thought that many foundation plantings are placed too close to the buildings, and he also urged nurserymen to advise their customers as to how and when to water.

A committee was appointed to provide a rose display garden on the state fair grounds. Chet Marshall, Marshall Nurseries, Omaha, who is a member of the state fair board, assured the nurserymen that the board would see to it that the garden received proper care.

President Campbell called on the following guests, who responded briefly: Dean of Nurserymen E. S. Welch, Mount Arbor Nurseries, Shenandoah, Ia.; David Lake, Lake's Shenandoah Nurseries, Shenandoah, Ia.; the state nursery inspector, R. J. Walstrom, Lincoln, and the former state nursery inspector, L. M. Gates, Peru.

HENRY W. GILBERT, landscape extension specialist at the University of Illinois for several years, has left to become a member of the staff of the department of horticulture at Purdue University, West Lafayette, Ind.

ELECTION of William M. Werner as a vice-president of Avco Mfg. Corp., farm equipment manufacturers, was announced recently. He is general manager of the New Idea division of Avco, with offices at Coldwater, O.

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